Roger Williams Park Museum HVAC Renovations -REBID-1000 Elmwood Ave, Providence, RI 02907





ADDENDUM 3



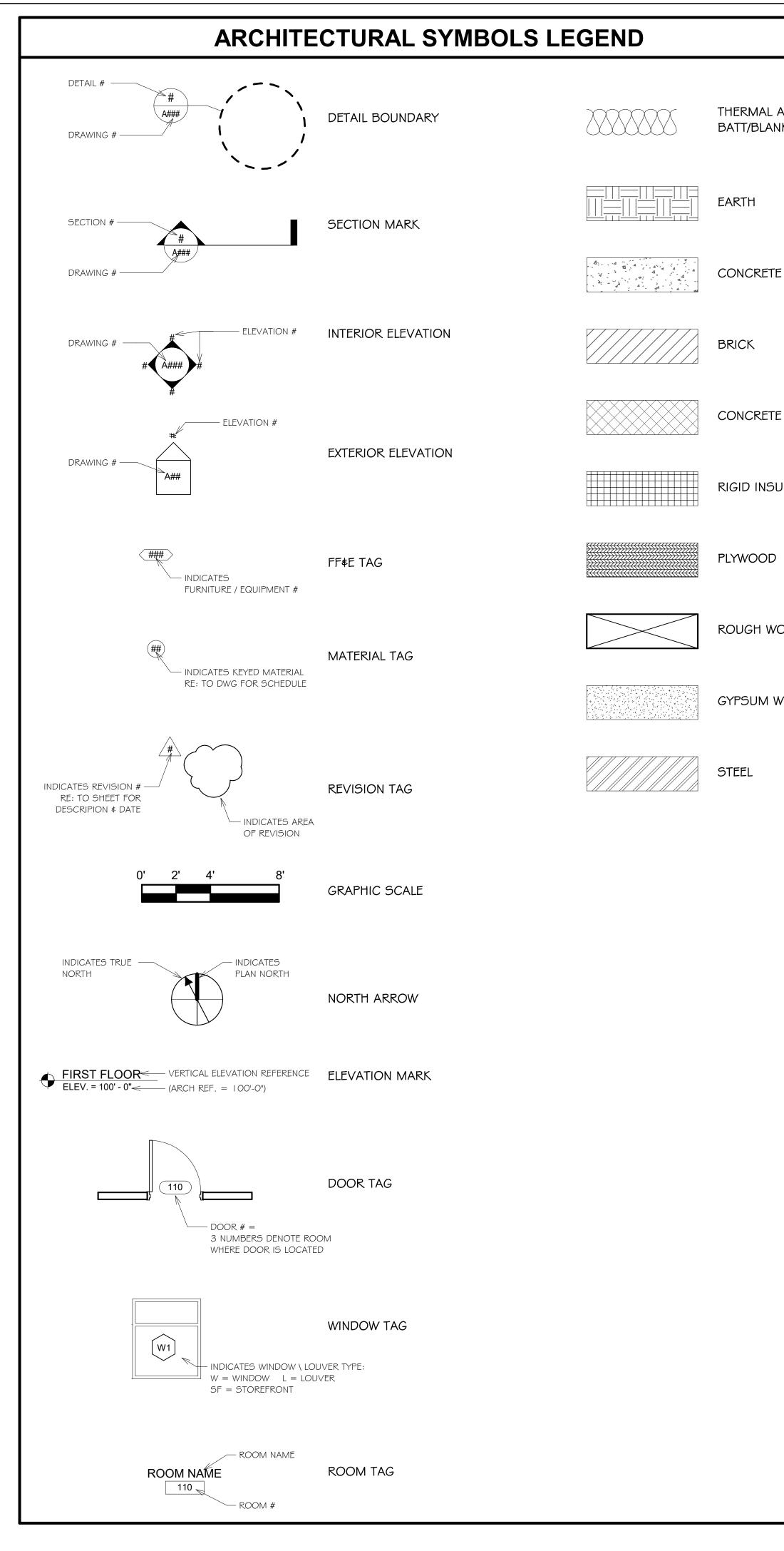
ARCHITECTS

SACCOCCIO & ASSOCIATES, INC. 1085 PARK AVENUE CRANSTON, RI 02910



ENGINEERS

ANDRE GILL ENEGINEERING. LLC MECHANICAL. PLUMBING AND ELECTRICAL ENGINEERS



	CODE INF	ORMATION	LIST OF DRAWINGS
	 CODE LIST: International Building Code (2015 Edition) along with the R International Plumbing Code - 2015 w/ RI Amendments SE 	hode Island State Building Code SBC 1 - 2019 Amendments) 3C-3 2019	<u>GENERAL</u> GI.O SHEET LIST, SYMBOLS, NOTES ∉ ABBREVIATION LEGENDS
AND/OR ACOUSTICAL	 International Plumbing Code - 2015 w/ RI Amendments SBC-3 2019 International Energy Conservation Code - 2015 w/ RI Amendments SBC-8, Climate Zone 5 ICC / ANSI A117.1 - 2009 Edition NFPA 1 2018 Edition w/ 2019 Rhode Island Amendments 		<u>ARCHITECTURAL</u> A I .O BASEMENT FLOOR PLAN
IKET INSULATION	NFPA 101: 2018 Edition w/ 2019 Rhode Island Amendments		AI.1 Ist FLOOR PLAN AI.2 2nd FLOOR PLAN
	PROJECT DESCRIPTION: The project shall include the following: Provide Architectural, Mechanical and Electrical design to pro	vide design documents for the replacement of the HVAC	AI.3 3rd FLOOR PLAN A5.1 ROOF PLAN & DETAILS
	systems serving the exhibit halls, education center, vaults, are	chives and office areas of the Museum of Natural History and s and include isolation and making safe of the existing oil tank	A8.1 2nd FLOOR REFLECTED CEILING PLAN MECHANICAL
	in place. Sizing of systems, equipment locations, and ensuring requirements, and full functionality are required. Energy efficient	g the project meets the design intent, energy efficiency	MO.01 MECHANICAL GENERAL (INDEX, SYMBOLS, LEGEND, NOTES, ABBREVIATION, LOCATION M M1.00 (D) MECHANICAL PLANS (BASEMENT)
		g the Vaults. This is a historic building. the Design Engineer will	MI.01 (D) MECHANICAL PLANS (FIRST FLOOR) MI.02 (D) MECHANICAL PLANS (SECOND FLOOR)
	 Plumbing: Demo and remove existing water filtration skid. Demo a Demo and remove existing underground storage tank a 	and remove existing water heater.	MT.02 (D) MECHANICAL PLANS (SECOND FLOOR) MT.03 (D) MECHANICAL PLANS (THIRD FLOOR) MT.04 (D) MECHANICAL PLANS (ROOF)
	preference to abandon in place the UST.	rawings. An approved equal water heater may be submitted for	MI.IO (N) MECHANICAL PLANS BASEMENT MI.II (N) MECHANICAL (FIRST FLOOR ZONES)
	 Submit a new water filtration skid meeting specification entry and point of use shall be submitted EOR within or 	s and drawings for approval by EOR. Testing of water at point of ne month of letter of intent is signed. The selection of the anufacturer provides slightly different sands and carbons.	MI.I2 (N) MECHANICAL (SECOND FLOOR ZONES)
	Depending on the exact content the systems will vary bInstall fixtures as shown on Architectural drawings.		MI.I3 (N) MECHANICAL (THIRD FLOOR ZONES) MI.I4 (N) MECHANICAL (ROOF FLOOR ZONES)
MASONRY UNITS	equipment "SHALL" be made safe.	equipment is listed as abandon in place all piping, ductwork and	M3.01 MECHANICAL SECTIONS M5.01 MECHANICAL DETAILS
	 Abandon in place items may be removed in order install new piping, ductwork, and equipment with appropriate clearances. If cost to remove abandon in place items is less than working around the equipment it may be removed. If cost implications exist it shall be brought to the immediate attention of the AOR and EOR. 		M5.02 MECHANICAL DETAILS M6.01 MECHANICAL SCHEDULES
	 Install all mechanical equipment shown on drawings. Firequipment. No substitutions of Mechanical equipment a If substitution is necessary contractor shall provide equipment. 	are allowed. ivalent equipment. The equipment shall meet and/or exceeds	M7.01 VAV CONTROLS M8.00 SEQUENCE OF OPERATIONS
LATION	specified equipment. A Rhode Island Mechanical Proferequirement.HVAC condensate piping shall be new and routed for e	ssional Engineer shall sign off equipment meeting specified ase of installation. The final location and sizes of the	ELECTRICAL EO.OI ELECTRICAL GENERAL (INDEX, SYMBOLS, LEGEND, NOTES, ABBREVIATION)
	condensate piping shall be redlined and provided to the Electrical Demo and remove equipment as shown on drawings. 		EO.O2 SINGLE LINE E I .OO (D) ELCETRICAL PLANS (BASEMENT)
	Install and connect all new equipment electrically per NEC BUILDING CODE		E I .O I (D) ELCETRICAL PLANS (FIRST FLOOR) E I .O2 (D) ELCETRICAL PLANS (SECOND FLOOR)
	Use and Occupancy Classification (Chapter 3): A3	be IIIB = 55	E I .03 (D) ELCETRICAL PLANS (THIRD FLOOR) E I .04 (D) ELCETRICAL PLANS (ROOF)
OD	Ass	ce = 100 gross embly = 5 net (Standing)	EI.IO (N) ELCETRICAL PLANS (BASEMENT) EI.II (N) ELCETRICAL PLANS (FIRST FLOOR)
		embly = 62 gross (Seating) per occupant - Stairways	E1.12 (N) ELCETRICAL PLANS (SECOND FLOOR) E1.13 (N) ELCETRICAL PLANS (THIRD FLOOR)
	.2"	per occupant - Other egress componants	E2.01 PANEL SCHEDULES E2.02 PANEL SCHEDULES
ALLBOARD	Corridor Fire Rating (Table 1018.1) 0 h	min. width	LZ.02 TANLE SCHEDULLS
		ION	
	G1.0 12" = 1'-0"		<u>GENERAL NOTES</u> THE CONTRACTOR/S SHALL:
			I. UNDERSTAND THAT THE TERM "PROVIDE" AS LISTED ON THE ARCHITECTURAL DRAWINGS SHALL MEAN "FURNISH AND INSTALL".
	ARCHITECTURAL ABBR	EVIATION LEGEND	2. UNDERSTAND THAT UNLESS SPECIFICALLY NOTED AS "PROVIDED BY OTHERS" OR "PROVIDED BY OWNER", ALL WORK IN THESE CONTRACT DOCUMENTS IS TO BE PERFORMED BY THE GENERAL CONTRACTOR AND/OR THEIR SUB CONTRACTORS.
	- = NO WORK NEEDED ACT = ACOUSTICAL CEILING TILE	MECH = MECHANICAL	
	ACTT = ACOUSTICAL CEILING THE TEGHLAR	MIN = MINIMUM $MISC = MISCELLANEOLIS$	3. VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK
	ACTT = ACOUSTICAL CEILING TILE-TEGULAR AFF = ABOVE FINISH FLOOR ALUM = ALUMINUM	MISC = MISCELLANEOUS $MFR = MANUFACTURER$ $MO = MASONRY OPENING$	3. VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION FOR EXTRA WORK ON BEHALF OF THE CONTRACTOR WILL BE CONSIDERED THAT COULD HAVE BEEN DETERMINED BY VISUAL OBSERVATION PRIOR TO BIDDING.
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Associates, Inc. 1085 Park Avenue Cranston, Rhode Island 02910 • ____ Consultant

Saccoccio &



ARCHITECTS

tel 401.942.7970

fax 401.942.7975

ANDRE GILL

ENEGINEERING. LLC

Museum of Natural History

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Roger Williams Park R.I.

Revision Schedule

ADDENDUM 3

10 MAY 2022

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SYMBOLS,

NOTES &

ABBREVIATION

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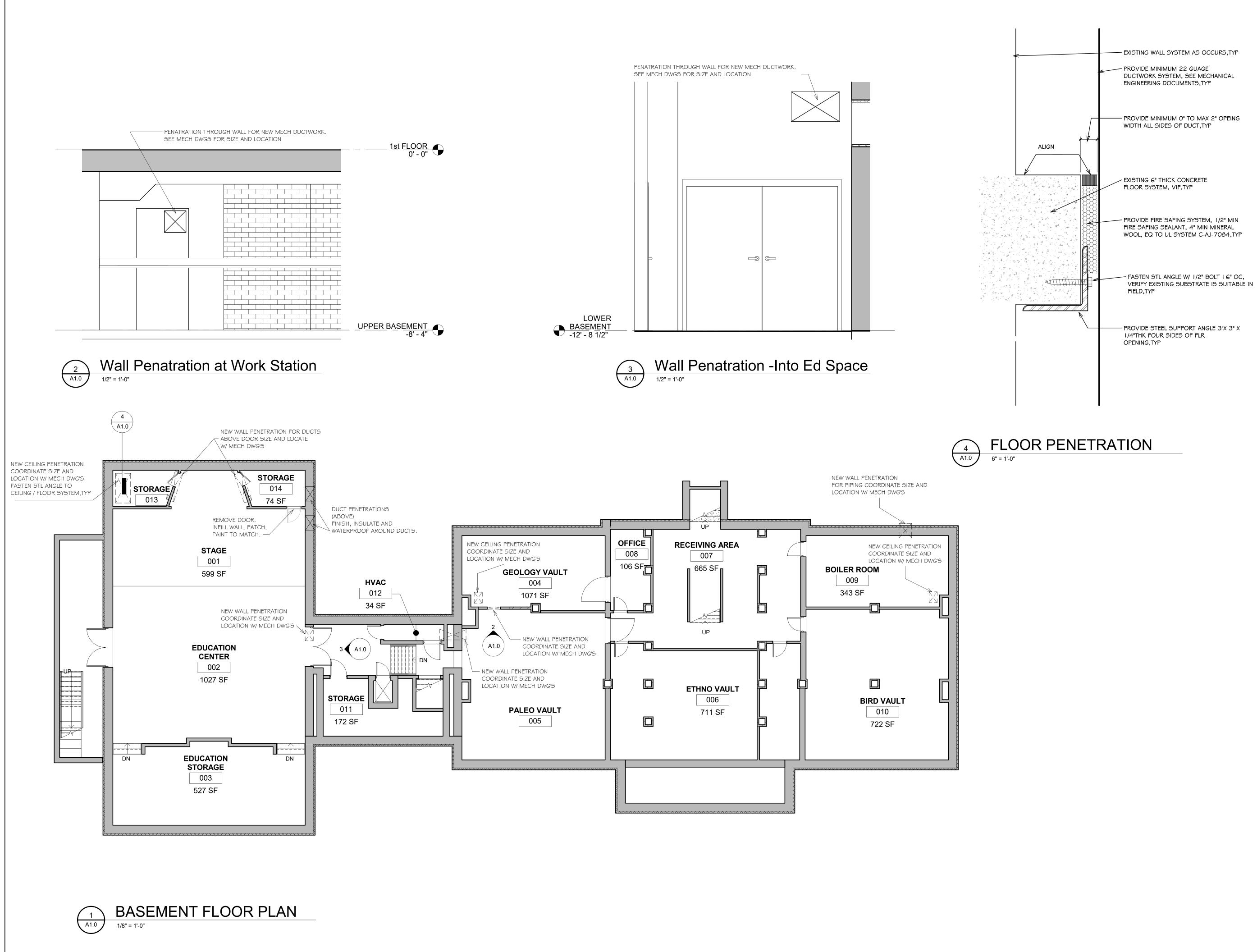
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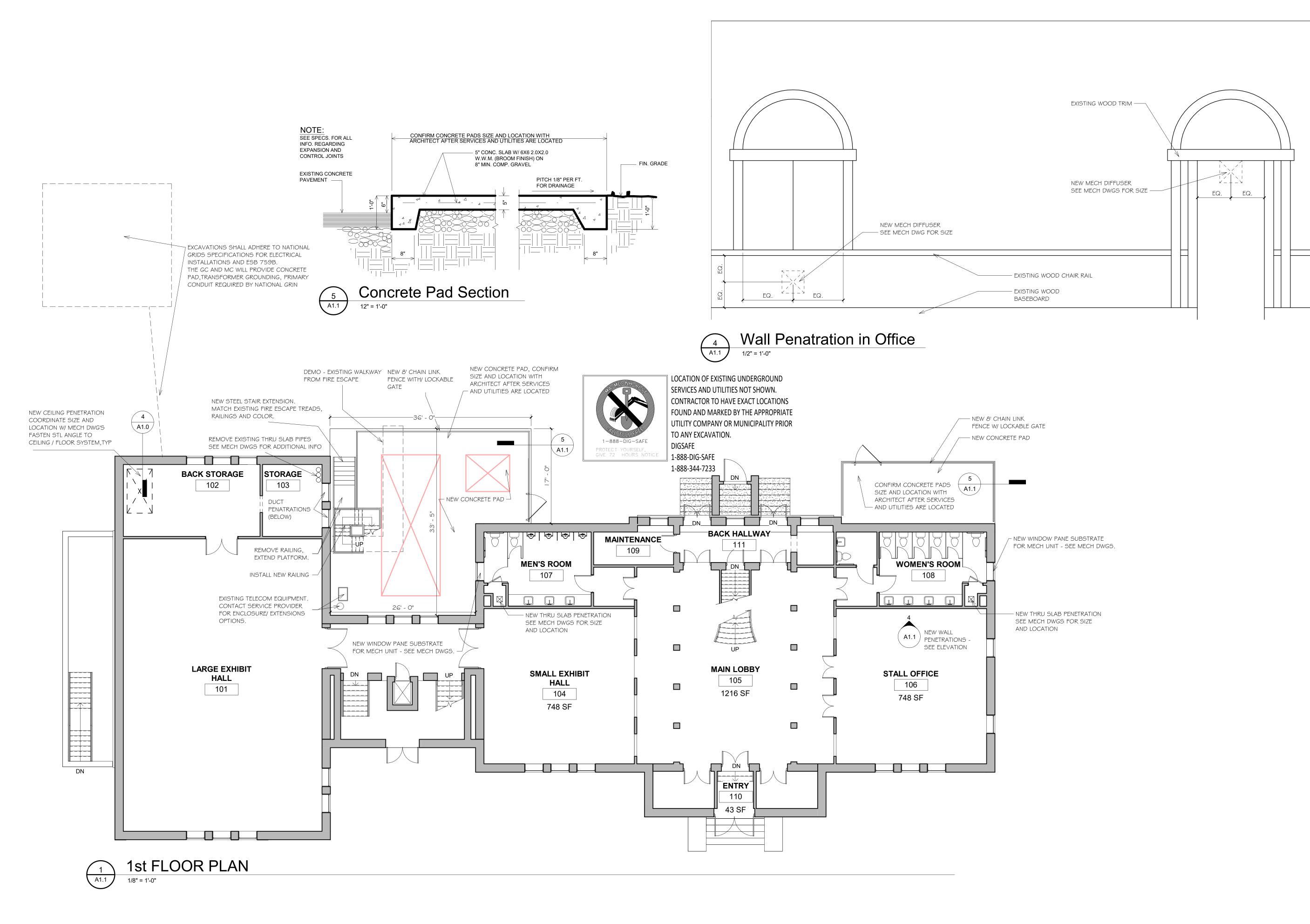
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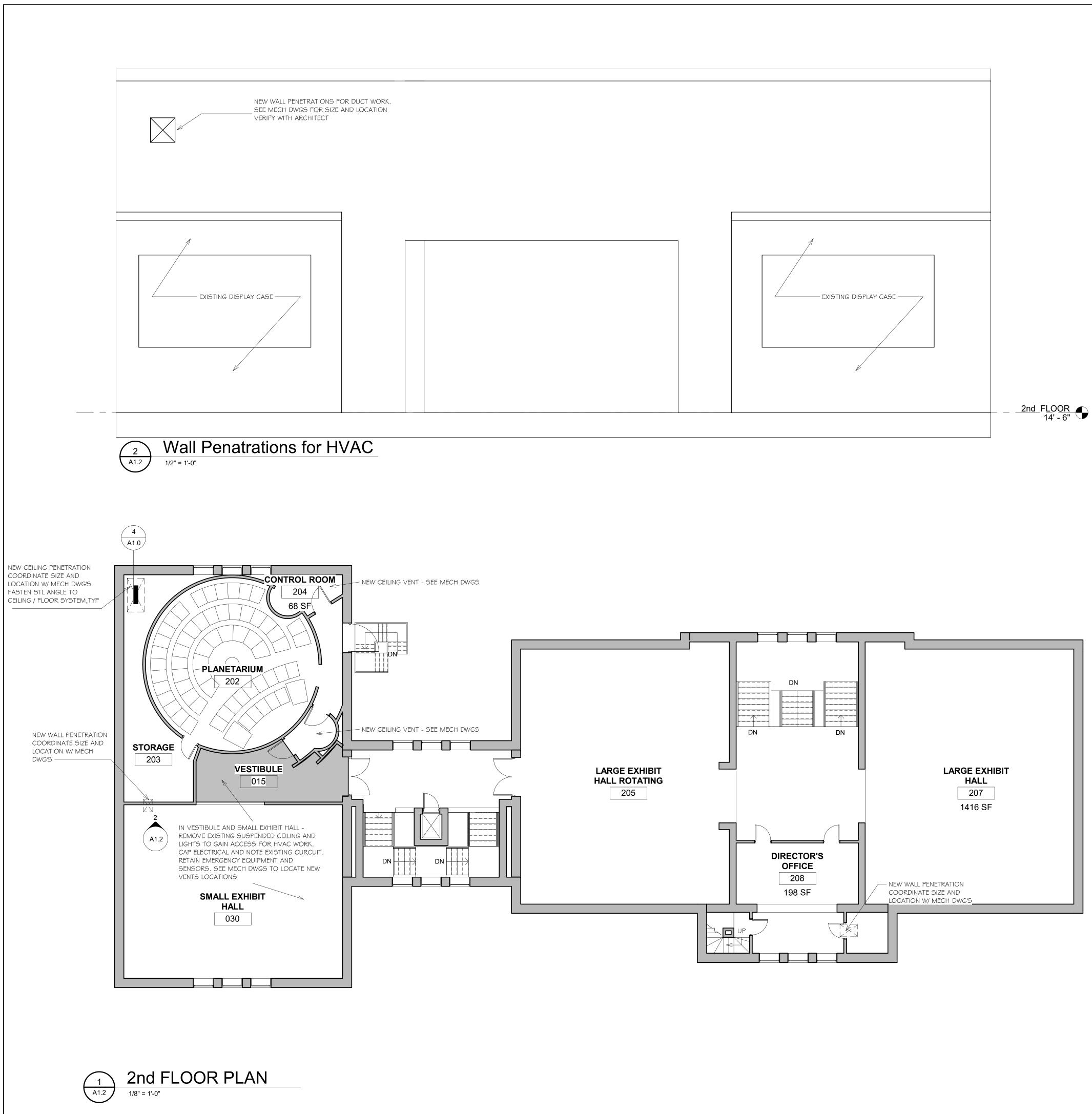
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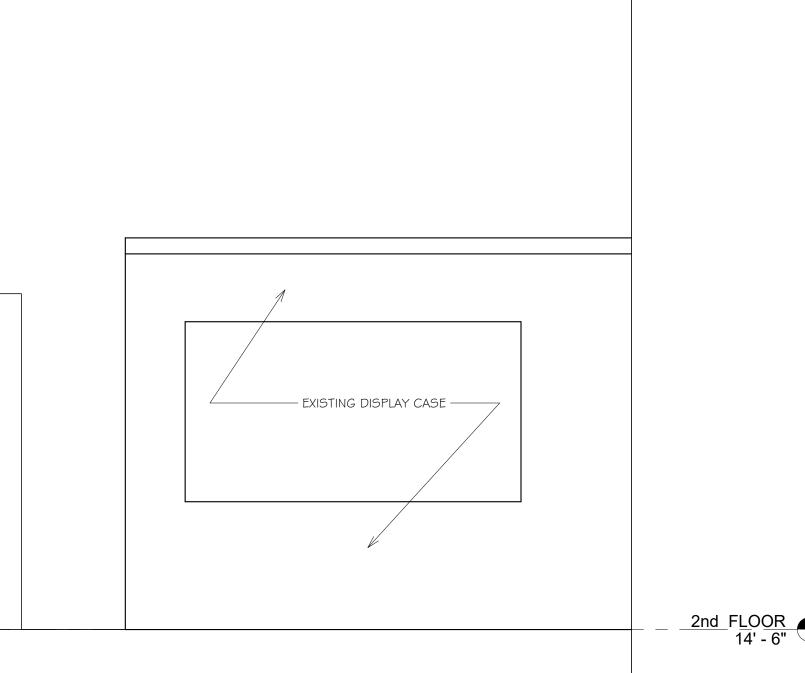


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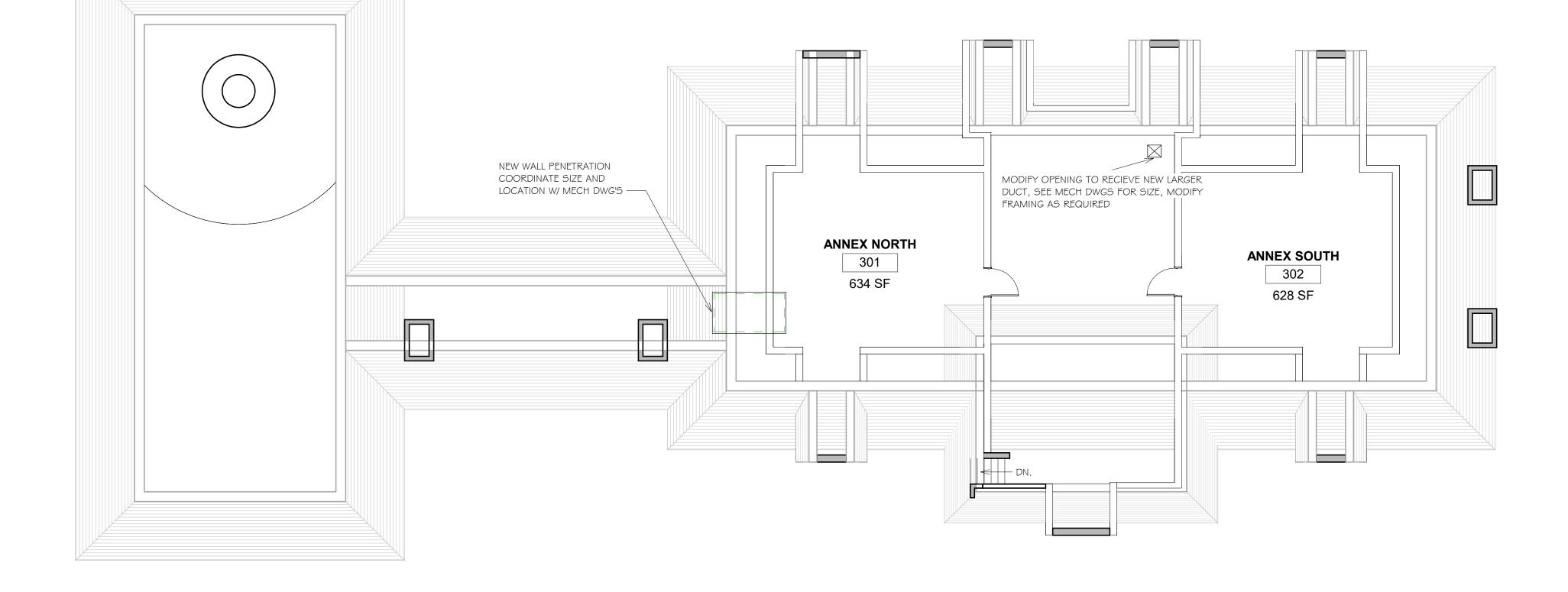
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Saccoccio & Associates, Inc. 1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
Consultant
A.G.E
ANDRE GILL
ENEGINEERING. LLC
Museum of Natural History
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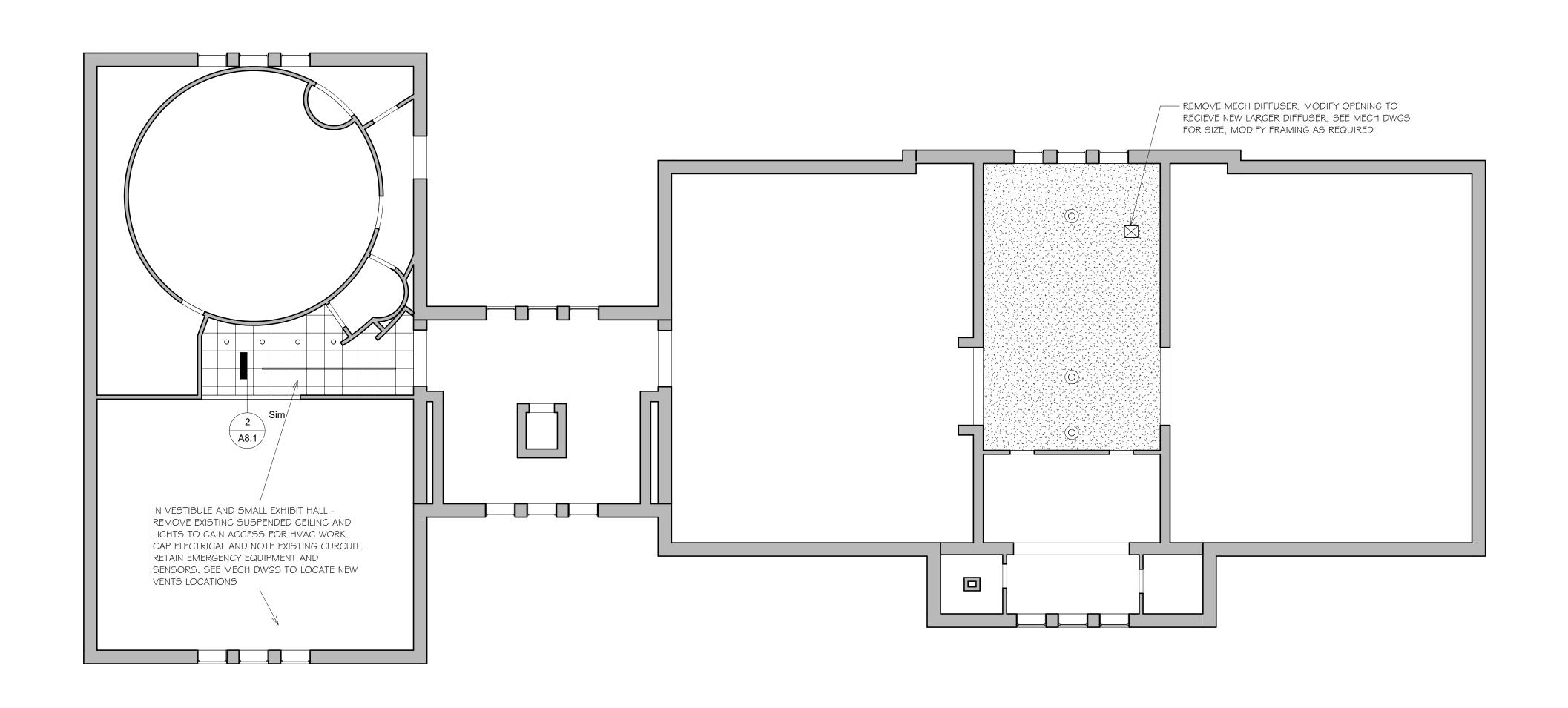
ARCHITECTS
Saccoccio &
Associates, Inc.
Cranston, Rhode Island fax 401.942.7975 02910
– – Consultant
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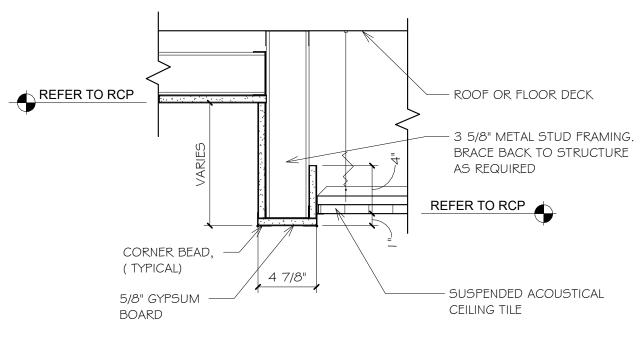
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SZ ARCHITECTS
Saccoccio &
Associates, Inc.
1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
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ANDRE GILL
ENEGINEERING. LLC
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ARCHITECTS
Saccoccio & Associates, Inc.
1085 Park Avenue tel 401.942.7970 Cranston, Rhode Island fax 401.942.7975 02910
Consultant
A.G.E
ANDRE GILL
ENEGINEERING. LLC
Museum of Natural History
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GENERAL NOTES

- ENGINEER, OWNER AND ARCHITECT. INCLUDING SIZE, INVERT ELEVATIONS, DIRECTION OF FLOW PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE D DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- ALL PIPING ON THIS PLAN SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- REPAIR PAVING/FLOOR AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS OR MATCH AND COMPLY WITH ARCHITECTURAL DRAWINGS. CONTRACTOR TO RECONNECT EXISTING ELECTRICAL GROUNDING/BONDING TO COLD WATER PIPING SYSTEM. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION
- TO BUILDING STRUCTURE PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER
- OR PRESSURE REDUCING VALVES. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.
- THE LOCATION OF EXISTING UNDERGROUND/UNDERSLAB UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS
- MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED
- EQUIPMENT. ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY. PROVIDE ACCESS PANELS WHERE REQUIRED
- TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE
- MANUFACTURER SHALL BE USED. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR
- CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.
- Q. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE V. MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
- ALL MECHANICAL ROOM DOORS SHALL BE A MINIMUM OF 4'-0" WIDE. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE
- PRIOR TO FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. AA. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR
- PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. BB. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS
- SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION. CC. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- DD. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE EE.
- PFRMITTFD FF. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- GG. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR
- SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. HH. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A
- PRODUCT SIMILAR TO 3M OR APPROVED EQUAL. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST DRAIN. SEE DETAILS
- SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAF KK. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

DRAWING AND SPECIFICATIONS

- IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR COMPLETE, FINISHED WORK, TESTED AND READY FOR CONTINUOUS OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION. EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE HVAC SUBCONTRACTOR OR HIS/HER SUB-SUBCONTRACTORS, WITHOUT ADDITIONAL EXPENSE TO THE OWNER
- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE LOCATIONS OF ALL ITEMS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS MUST BE DETERMINED AT THE SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED. THE HVAC SUBCONTRACTOR SHALL FOLLOW DRAWINGS, INCLUDING SHOP DRAWINGS, IN LAYING OUT WORK AND SHALL CHECK THE DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS. WHERE SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE INSTALLATION. THE HVAC SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

PIPING NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE
- INVERT OF ALL GRAVITY PIPING. MAINTAIN A MINIMUM OF 3'6" OF GROUND COVER OVER ALL UNDERGROUND HVAC PIPING BUT ENSURE FROST C.
- LINE IN CONSIDERED AND MET. UNLESS OTHERWISE NOTED, ALL CHILLED WATER AND HEATING WATER PIPING SHALL BE 34 INCH SIZE (EDIT
- SYSTEM TYPE OR PIPE SIZE TO SUIT PROJECT REQUIREMENTS)
- PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP ALL HYDRONIC PIPING SYSTEMS INCLUDING BUT NOT LIMITED TO IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS (EDIT SYSTEM TYPES TO SUIT PROJECT REQUIREMENTS). ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

3

- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND
- MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS) PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0"
- ABOVE FLOOR LEVEL; CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. PITCH STEAM PIPING DOWNWARD IN THE DIRECTION OF FLOW 1/4 INCH IN 10 FEET (1 INCH IN 40 FEET) MINIMUM. PITCH ALL STEAM RETURN LINES DOWNWARD IN THE DIRECTION OF CONDENSATE FLOW 1/2 INCH PER 10 FEET (1 INCH IN 20 FEET) MINIMUM. WHERE LENGTH OF BRANCH LINES ARE LESS THAN 8 FEET, PITCH BRANCH LINES
- TOWARD MAINS 1/2 INCH PER FOOT MINIMUM PITCH UP ALL STEAM AND CONDENSATE RUNOUTS TO RISERS AND EQUIPMENT 1/2 INCH PER FOOT. WHERE THIS
- PITCH CANNOT BE OBTAINED, RUNOUTS OVER 8 FEET IN LENGTH SHALL BE ONE SIZE LARGER THAN NOTED. TAP ALL BRANCH LINES FROM TOP OF STEAM MAINS (45 DEGREES PREFERRED, 90 DEGREES ACCEPTABLE).
- PROVIDE AN END OF MAIN DRIP AT EACH RISE IN THE STEAM MAIN. PROVIDE CONDENSATE DRIPS AT THE BOTTOM OF ALL STEAM RISERS, DOWNFED RUNOUTS TO EQUIPMENT, RADIATORS, ETC., AT END OF MAINS AND LOW POINTS, AND AHEAD OF ALL PRESSURE REGULATORS, CONTROL VALVES, ISOLATION VALVES, AND EXPANSION JOINTS
- ON STRAIGHT STEAM PIPING RUNS WITH NO NATURAL DRAINAGE POINTS, INSTALL DRIP LEGS AT INTERVALS NOT EXCEEDING 200 FEET WHERE PIPE IS PITCHED DOWNWARD IN THE DIRECTION OF STEAM FLOW AND A MAXIMUM OF 100 FEET WHERE THE PIPE IS PITCHED UP SO THAT CONDENSATE FLOW IS OPPOSITE OF STEAM FLOW. STEAM TRAPS SHALL BE MINIMUM 3/4" SIZE
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS, CHILLERS, COOLING
- TOWERS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS
- SLOPE REFRIGERANT PIPING ONE PERCENT IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED I FVFI
- INSTALL HORIZONTAL REFRIGERANT HOT GAS DISCHARGE PIPING WITH 1/2" PER 10 FEET DOWNWARD SLOPE AWAY FROM THE COMPRESSOR.Z. INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2" PER 10 FEET DOWNWARD SLOPE TO THE COMPRESSOR, WITH NO LONG TRAPS OR DEAD ENDS WHICH MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS AND RETURN TO THE COMPRESSOR IN DAMAGING SLUGS. PROVIDE LINE SIZE LIQUID INDICATORS IN MAIN LIQUID LINE LEAVING CONDENSER OR RECEIVER. INSTALL
- MOISTURE-LIQUID INDICATORS IN LIQUID LINES BETWEEN FILTER DRYERS AND THERMOSTATIC EXPANSION VALVES AND IN LIQUID LINE TO RECEIVER. AA PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER
- BB. PROVIDE PERMANENT FILTER DRYERS IN LOW TEMPERATURE SYSTEMS AND SYSTEMS USING HERMETIC COMPRESSORS
- CC. PROVIDE REPLACEABLE CARTRIDGE FILTER DRYERS WITH THREE VALVE BYPASS ASSEMBLY FOR SOLENOID VALVES, ADJACENT TO RECEIVERS.
- PROVIDE REFRIGERANT CHARGING VALVE CONNECTIONS IN LIQUID LINE BETWEEN RECEIVER SHUTOFF VALVE AND EXPANSION VALVE.

SCOPE OF WORK

- ALL CONTRACTORS SHALL FOLLOW THE CURRENT ENFORCED RHODE ISLAND STATE BUILDING CODES AS A MINIMUM, HOWEVER SECTIONS OF THESE DOCUMENTS REFLECT CURRENT VERSION OF ICC INTERNATIONAL CODES WHERE THEY SUPERSEDE RISBC. ALL CONTRACTORS SHALL FOLLOW ALL LOCAL REQUIREMENTS BY AUTHORITIES HAVING JURISDICTION. CONTRACTORS SHALL INSTALL ALL EQUIPMENT FOLLOWING ASHRAE, ASME, ASTM, NFPA AND NEC
- STANDARDS. CONTRACTORS SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES AS SHOWN AND/OR IMPLIED ON DRAWINGS AND SPECIFICATIONS FOR A COMPLETE AND PROPER INSTALLATION. THE DRAWINGS ARE NOT ALL INCLUSIVE AND THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE INSTALLATION. THE DRAWINGS SHOW MAJOR COMPONENTS AND ALL QUALIFIED CONTRACTORS SHALL
- HAVE SUFFICIENT EXPERIENCE IN PERFORMANCE OF THIS INSTALLATION CONTRACTORS SHALL FURNISH AND INSTALL, PURGE, CHARGE, TEST AND OPERATE ALL EQUIPMENT, ACCESS DOORS, CAULKING, SLEEVES, FLASHING, FLEXIBLE CONNECTIONS, INSERTS, DEVICES, HANGERS, SUPPORTS, BRACING, FASTENERS, MISCELLANEOUS HARDWARE AND INSULATION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, INSPECTIONS AND TESTS REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION
- PROVIDED EQUIPMENT AND/OR EQUIPMENT COMPONENTS WITH UL LABELS TO COMPLY WITH THE NATIONAL ELECTRIC CODE. MAINTAIN COMPLIANCE WITH OSHA THROUGHOUT THE CONSTRUCTION PHASE AND WITH COMPLETED
- PROVIDE ALL LABOR, MATERIALS, PLANT EQUIPMENT AND SERVICES NECESSARY AND REQUIRED TO
- COMPLETE MEP WORK AS SHOWN ON AND/OR REASONABLY IMPLIED BY THE DRAWINGS AND SPECIFICATIONS.
- THE FOLLOWING ARE THE GENERAL CLASSIFICATIONS OF WORK INCLUDED IN, BUT NOT LIMITED TO THIS SECTION.
- RECEIVING, RIGGING, SETTING AND INSTALLATION OF THE PURCHASED EQUIPMENT. PROVIDING OF SHOP DRAWINGS FOR APPROVAL WITHIN ALLOWANCE OF ACCEPTANCE AND INSTALLATION TO NOT HINDER CONSTRUCTION SCHEDULE.
- PURCHASE INSTALL, ELECTRICAL AND PIPING OF NEW EQUIPMENT AS SCHEDULED. DEMOLITION AND MAKE SAFE EXISTING PIPING, DUCTWORK AND ASSOCIATED HANGERS AS INDICATED
- ON DRAWINGS. DEMOLITION AND MAKE SAFE EXISTING ELECTRICAL AND CONDUIT AS REQUIRED
- LOW PRESSURE COMPRESSED AIR PIPING, VALVES, FITTINGS, LABELING, TAGGING, ETC. STEAM AND CONDENSATE PIPING, VALVES, FITTINGS, LABELING, TAGGING, ETC.
- PIPING SUPPORTS INSIDE AND OUTSIDE. TIE-IN OF FIRE ALARMING DEVICES TO EXISTING SYSTEM.
- CONTROL WIRING TO EQUIPMENT AND DEVICES. WORK PERFORMED DURING SUMMER MONTHS SHALL MAINTAIN HUMIDITY IN ADDITION TO
- TEMPERATURES. CUTTING AND PATCHING FOR ALL MECHANICAL WORK.
- START- UP OPERATIONS.
- CLEAN UP. COORDINATION AND COOPERATION WITH CONTRACTORS AND SUPPLIERS FOR OTHER SECTIONS AND
- WITH THE OWNER. AS- BUILT DRAWINGS.
- WARRANTY AND GUARANTEE
- ELECTRICAL POWER WIRING OF NEW EQUIPMENT. CONCRETE PADS AS REQUIRED

CONSULTANTS

MEP ENGINEER:

T: 401.441.3414

Andre Gill Engineering, LLC

40 Overlea Road North Smithfield, RI 02896

W: www.andregillengineering.com

ADDENDUM 3	10MAY22
ADDENDUM 2	26APR22
ADDENDUM 1	04APR22
ISSUE FOR BID	01MAR22
CLIENT REVIEW	21SEP21
Revision:	Date:
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HVAC/ SHEETMETAL NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. CONTRACTOR IS
- REQUIRED TO INSTALL ACCESSORIES INCLUDED BUT NOT LIMITED TO ACCESS PANELS, DAMPERS (INCLUDING FIRE, SMOKE AND COMBO), TEST PORTS AS REQUIRED BY CODE. FIRE AND SMOKE DAMPERS SHALL BE INSTALLED AT A MINIMUM OF ALL FIRE WALL PENETRATIONS UNLESS EXEMPT BY CODE. FIRE AN DUCT SMOKES SHALLED BE INSTALLED WITH IN 5' OF THE DAMPER WHEN REQUIRED, UNLESS OTHERWISE REQUIRED.
- INSULATE THE FOLLOWING a. ALL SUPPLY AIR, OUTDOOR AIR,

4

- EXAUST AND RELIEF AIR BETWEEN THE MOTOR-OPERATED DAMPER AND PENETRATION OF THE BUILIDNG EXTERIOR. ALL DUCTWORK LOCATED IN UNCONDITIONED SPACES OR OUTSIDE BUIDLING
- **FNVFI OPF** ALL DUCTWORK LOCATED IN ATTICS, WHETER VENTILATED OR UNVENTILATED. ALL DUCTWORK BURIED EITHER OUTSIDE THE BUILDING OR BELOW FLOORS
- ALL SURFACES SHOULD BE RESISTANT TO MOLD GROWTH AND RESIST EROSION. ACCORDING TO THE REQUIREMENTS OF ASHRAE STANDARD 62.1 IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED
- BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE SAME FIXTURE. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS
- 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- ALL DUCTWORK DIMENSIONS. AS SHOWN ON THE DRAWINGS. ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS
- PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN DISHWASHER. KITCHEN. AND LAUNDRY EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 11/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL FI BOWS WITH TURNING VANES. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL
- REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT. FIELD ERECTED AND FACTORY ASSEMBLED AIR HANDLING UNIT COILS SHALL BE
- ARRANGED FOR REMOVAL FROM THE UPSTREAM SIDE WITHOUT DISMANTLING SUPPORTS. PROVIDE GALVANIZED STRUCTURAL STEEL SUPPORTS FOR ALL COILS (EXCEPT LOWEST COIL) IN BANKS OVER TWO COILS HIGH TO PERMIT INDEPENDENT REMOVAL OF ANY COIL. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.
- LOCATE ALL MECHANICAL EQUIPMENT (SINGLE DUCT, DUAL DUCT, VARIABLE VOLUME CONSTANT VOLUME AND FAN POWERED BOXES, FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS, UNIT VENTILATORS, COILS, STEAM HUMIDIFIERS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING FINNED TUBE RADIATION ENCLOSURES SHALL BE WALL TO WALL UNLESS OTHERWISE
- INDICATED. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE
- POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
- RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET (EDIT MAXIMUM LENGTH OF FLEXIBLE DUCT TO SUIT PROJECT; 5 FEET MAXIMUM RECOMMENDED LENGTH, 8 FEET MAXIMUM LENGTH) ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN
- DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.
- PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENTS. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS, GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
- SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. TERMINATE GAS VENTS FOR UNIT HEATERS, WATER HEATERS, HIGH PRESSURE PARTS WASHER, HIGH PRESSURE CLEANER, AND OTHER GAS APPLIANCES A MINIMUM OF 3'0"
- ABOVE ROOF WITH RAIN CAP (EDIT APPLIANCES AND HEIGHT ABOVE ROOF TO MEET CODE AND TO SUIT PROJECT REQUIREMENTS). SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER
- REQUIREMENTS EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. DETAILED
- DESCRIPTIONS ARE PROVIDED IN THE ARCHITECTURAL SPECIFICATIONS. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES
- LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER SIZES, LOCATIONS, MOUNTING, AND DETAILS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED.

MECHANICAL PIPING LEGEND			MECHA	ANICAL PIPING LEGEND	-
SYMBOL	DESCRIPTION	ABR.	SYMBOL	DESCRIPTION	ABR.
(E) HWH 4"	- EXISTING HOT WATER HEATING SUPPLY	нwн	(E) AI 4"	EXISTING AIR INTAKE	AI
(N)HWH 4"	NEW HOT WATER HEATING SUPPLY BELOW FLOOR	нwн	(N)AI 4"	NEW AIR INTAKE BELOW FLOOR	AI
(N)HWH 4"	- NEW HOT WATER HEATING SUPPLY ON LEVEL	нwн	(N)AI 4"	NEW AIR INTAKE ON LEVEL	AI
(E) HWR 4"	EXISTING HOT WATER RECIRCULATION	HWR	(E) AG 4"	EXISTING ANAEROBIC GAS	AG
(N)HWR-4"	- NEW HOT WATER RECIRCULATION BELOW FLOOR	HWR	(N)AG 4"	NEW ANAEROBIC GAS BELOW FLOOR	AG
(N)HWR 4"	- NEW HOT WATER RECIRCULATION ON LEVEL	HWR	(N)AG 4"	NEW ANAEROBIC GAS ON LEVEL	AG
(E) HWS 4"	- EXISTING HOT WATER SUPPLY	HWS	(E) CWR 4"	EXISTING CHILLED WATER RETURN	CWR
(N)HWS 4"	- NEW HOT WATER SUPPLY BELOW FLOOR	HWS	(N)CWR 4"	NEW CHILLED WATER RETURN BELOW FLOOR	CWR
(N)HWS 4"	- NEW HOT WATER SUPPLY ON LEVEL	HWS	(N)CWR 4"	NEW CHILLED WATER RETURN ON LEVEL	CWR
(E) HR 4"	- EXISTING HYDRONIC RETURN	HR	(E) CWS 4"	EXISTING CHILLED WATER SUPPLY	cws
(N)HR 4"	- NEW HYDRONIC RETURN BELOW FLOOR	HR	(N)CWS 4"	NEW CHILLED WATER SUPPLY BELOW FLOOR	cws
(N)HR 4"	- NEW HYDRONIC RETURN ON LEVEL	HR	(N)CWS 4"	NEW CHILLED WATER SUPPLY ON LEVEL	cws
(E) HS 4"	- EXISTING HYDRONIC SUPPLY	HS	(E) C0 4"	EXISTING C02 GAS	со
(N)HS 4"	- NEW HYDRONIC SUPPLY BELOW FLOOR	HS		NEW C02 GAS BELOW FLOOR	со
(N)HS 4"	- NEW HYDRONIC SUPPLY ON LEVEL	HS	(N)C0 4"	NEW C02 GAS ON LEVEL	со
(E) COND 4"	- EXISTING STEAM CONDENSATE	COND	(E) CA 4"	EXISTING COMPRESSED AIR	CA
(N)COND 4"	- NEW STEAM CONDENSATE BELOW FLOOR	COND		NEW COMPRESSED AIR BELOW FLOOR	CA
(N)COND 4"	- NEW STEAM CONDENSATE ON LEVEL	COND	(N)CA 4"	NEW COMPRESSED AIR ON LEVEL	CA
(E) STM 4"	- EXISTING STEAM	STM	(E) C 4"	EXISTING CONDENSATE	с
(N)STM 4"	- NEW STEAM BELOW FLOOR	STM	(N)C 4"	NEW CONDENSATE BELOW FLOOR	с
(N)STM 4"	- NEW STEAM ON LEVEL	STM	(N)C 4"	NEW CONDENSATE ON LEVEL	с
(E) VHWHR 4"	EXISTING VARIABLE HEATING WATER RETURN	VHWHR	(E) <u>HWHR</u> 4"	EXISTING HOT WATER HEATING RETURN	HWHR
(N)VHWHR 4"	- NEW VARIABLE HEATING HOT WATER RETURN BELOW FLOOR	VHWHR	(N) HWHR 4"	NEW HOT WATER HEATING RETURN BELOW FLOOR	HWHR
(N)VHWHR 4"	- NEW VARIABLE HEATING HOT WATER RETURN ON LEVEL	VHWHR	(N)HWHR 4"	NEW HOT WATER HEATING RETURN ON LEVEL	HWHR
(E) VHWH 4"	EXISTING VARIABLE HEATING WATER SUPPLY	VHWHS	(N)V 4"	EXISTING TO BE DEMOLISHED ON LEVEL	DIAMETER ONL
(N)VIWH 4"		VHWHS	(N)V 4"	EXISTING TO BE DEMOLISHED BELOW FLOOR	DIAMETER ON
(N)VHWH 4"					

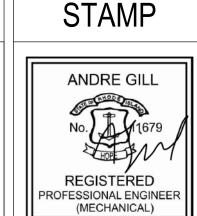
SA Mechanical Sheet List

Sheet		Sheet Issue
Number	Sheet Name	Date
M0.01	MECHANICAL GENERAL	09MAY22
M1.00	(D) MECHANICAL PLANS (BASEMENT)	09MAY22
M1.01	(D) MECHANICAL PLANS (FIRST FLOOR)	09MAY22
M1.02	(D) MECHANICAL PLANS (SECOND FLOOR)	09MAY22
M1.03	(D) MECHANICAL PLANS (THIRD FLOOR)	09MAY22
M1.04	(D) MECHANICAL PLANS (ROOF)	09MAY22
M1.10	(N) MECHANICAL PLANS BASEMENT	09MAY22
M1.11	(N) MECHANICAL (FIRST FLOOR ZONES)	09MAY22
M1.12	(N) MECHANICAL (SECOND FLOOR ZONES)	09MAY22
M1.13	(N) MECHANICAL (THIRD FLOOR ZONES)	09MAY22
M1.14	(N) MECHANICAL (ROOF FLOOR ZONES)	09MAY22
M3.01	MECHANICAL SECTIONS	09MAY22
M5.01	MECHANICAL DETAILS	09MAY22
M5.02	MECHANICAL DETAILS	09MAY22
M6.01	MECHANICAL SCHEDULES	09MAY22
M7.01	VAV CONTROLS	09MAY22
M8.00	SEQUENCE OF OPERATIONS	09MAY22

ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

T: 401.942.7970 W: www.sa-architects.com



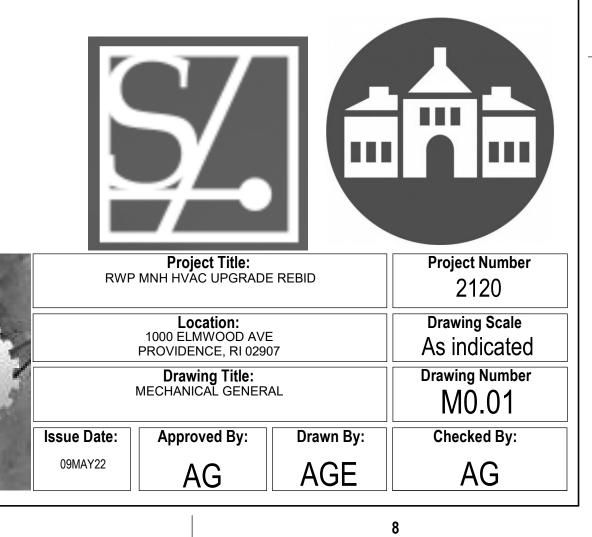
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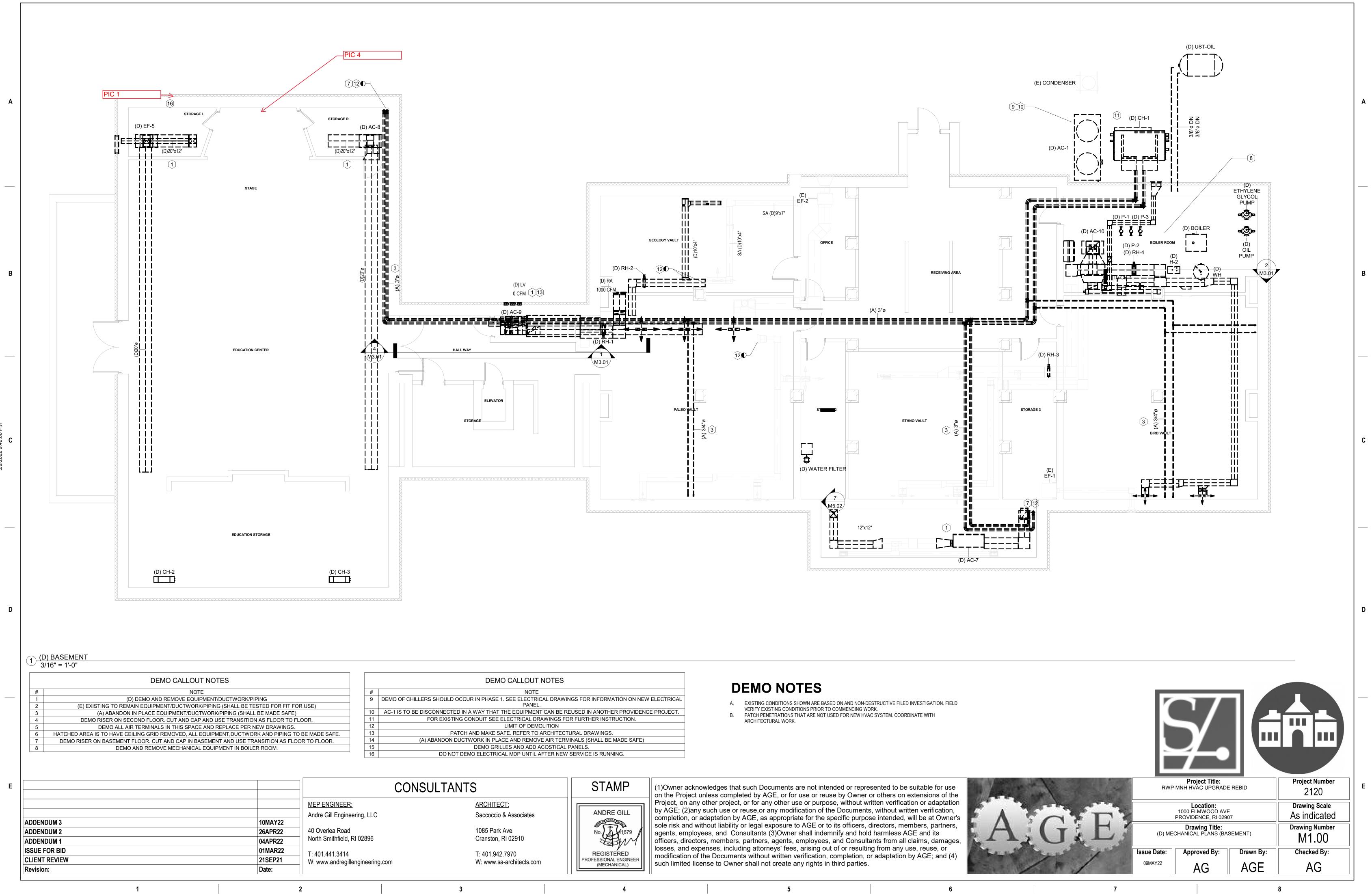
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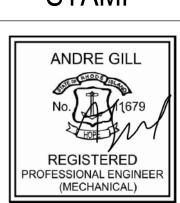


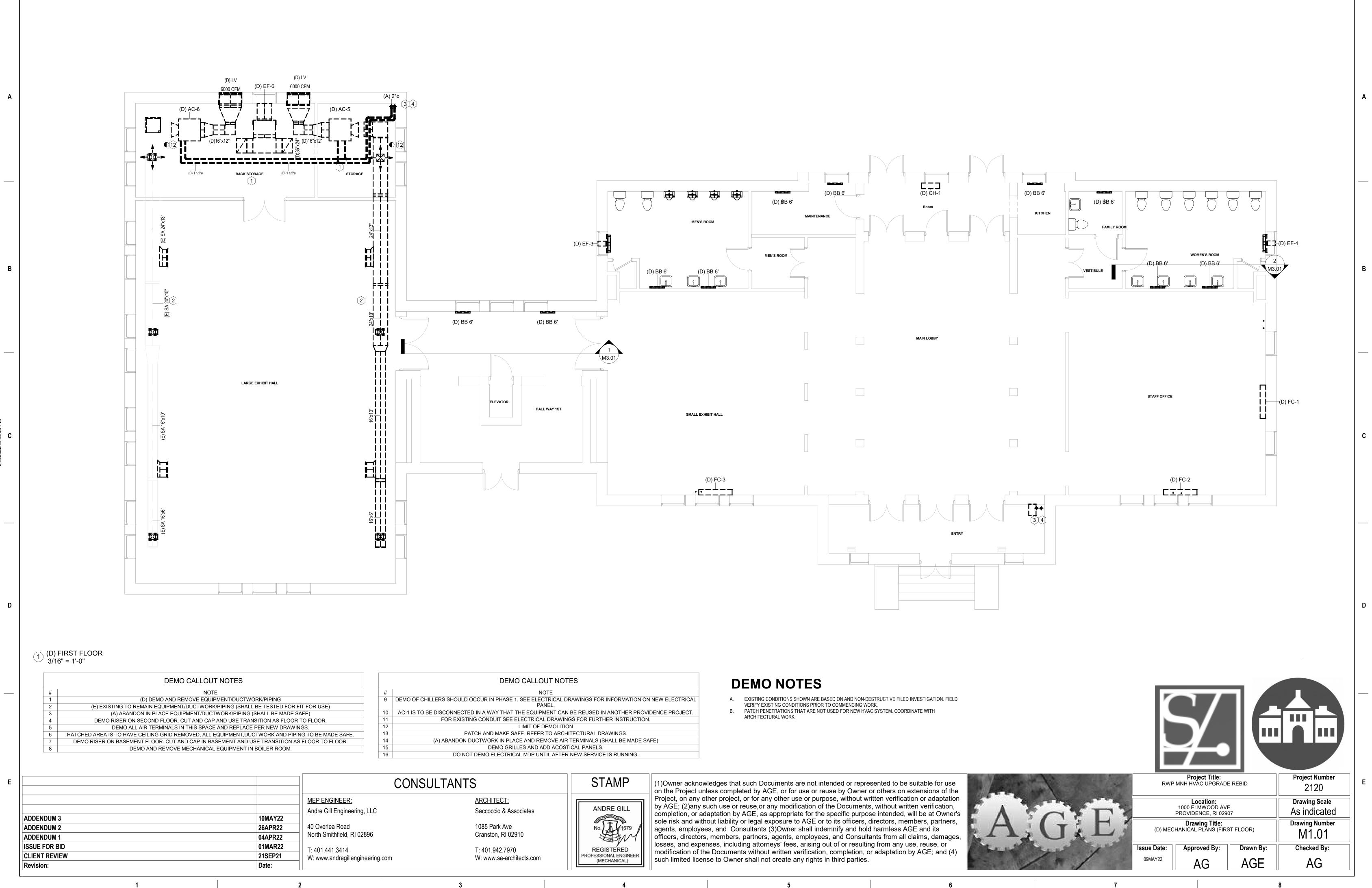




#	
#	
9	DEMO OF CHILLERS SHOULD OCC
10	AC-1 IS TO BE DISCONNECTED IN
11	FOR EXISTING (
12	
13	PATCH
14	(A) ABANDON DUC
15	
16	DO NOT DE

DENDUM 3	10MAY22
DENDUM 2	26APR22
DENDUM 1	04APR22
SUE FOR BID	01MAR22
IENT REVIEW	21SEP21



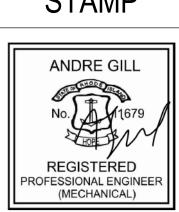


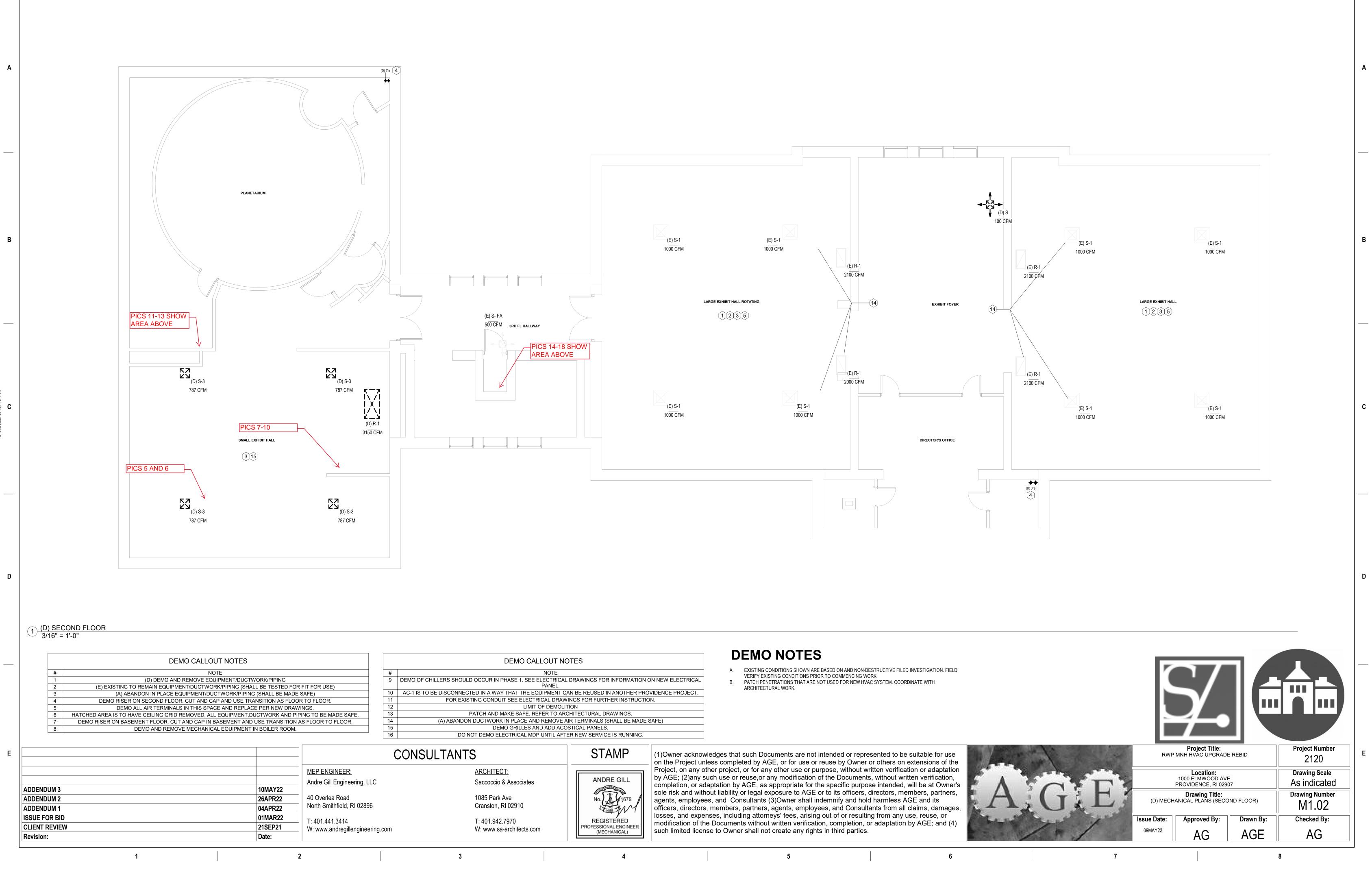
#	NOTE
1	(D) DEMO AND REMOVE EQUIPMENT/DUCTWORK/PIPING
2	(E) EXISTING TO REMAIN EQUIPMENT/DUCTWORK/PIPING (SHALL BE TESTED FOR FIT FOR USE)
3	(A) ABANDON IN PLACE EQUIPMENT/DUCTWORK/PIPING (SHALL BE MADE SAFE)
4	DEMO RISER ON SECOND FLOOR. CUT AND CAP AND USE TRANSITION AS FLOOR TO FLOOR.
5	DEMO ALL AIR TERMINALS IN THIS SPACE AND REPLACE PER NEW DRAWINGS.
6	HATCHED AREA IS TO HAVE CEILING GRID REMOVED, ALL EQUIPMENT, DUCTWORK AND PIPING TO BE MADE SAFE.
7	DEMO RISER ON BASEMENT FLOOR. CUT AND CAP IN BASEMENT AND USE TRANSITION AS FLOOR TO FLOOR.
8	DEMO AND REMOVE MECHANICAL EQUIPMENT IN BOILER ROOM.

#	
9	DEMO OF CHILLERS SHOULD
10	AC-1 IS TO BE DISCONNEC
11	FOR EXIS
12	
13	I
14	(A) ABANDON
15	
16	DO N

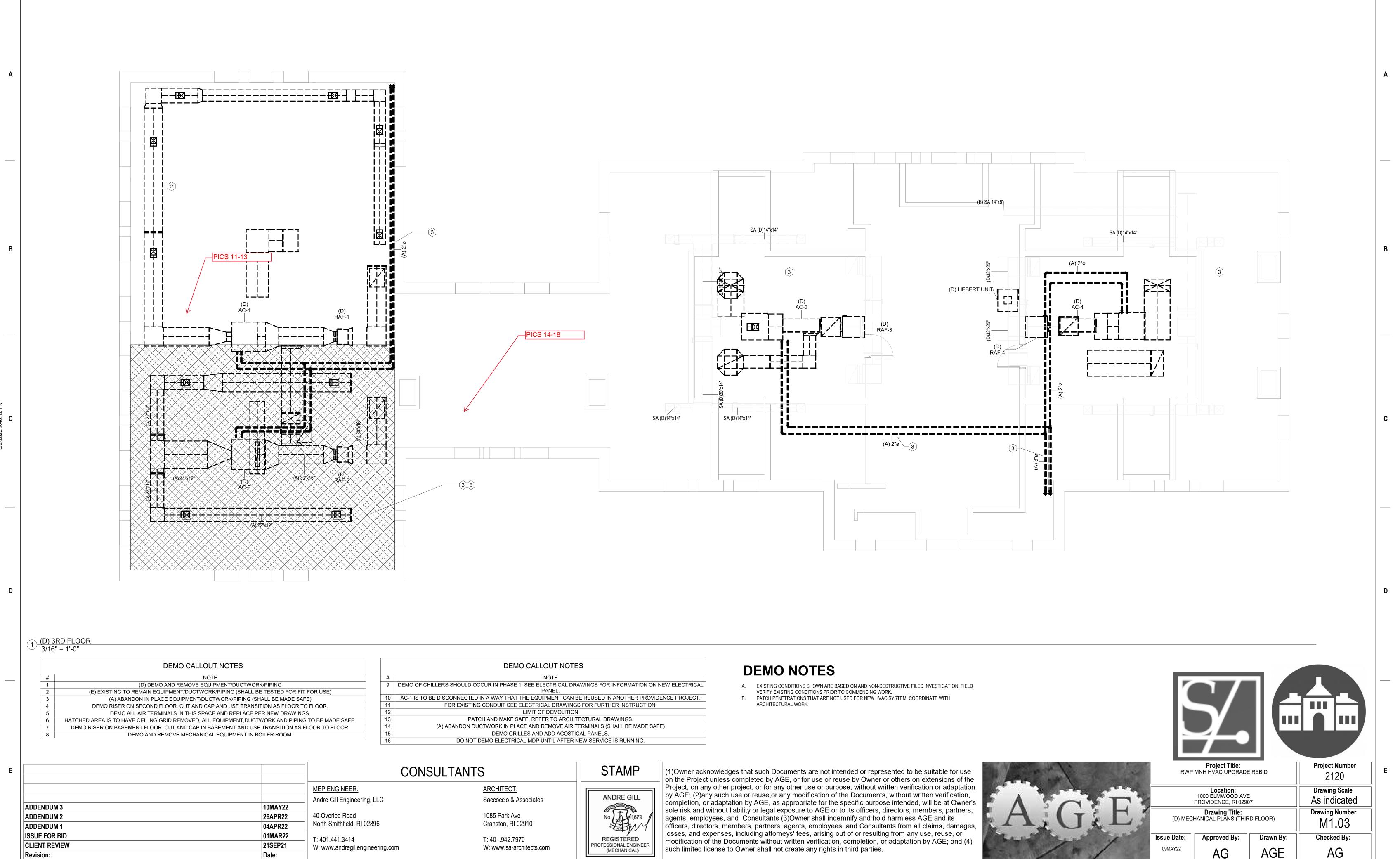
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DUM 2	26APR22
UM 1	04APR22
OR BID	01MAR22
REVIEW	21SEP21
2	Date:

MEP ENGINEER:
Andre Gill Engineeri





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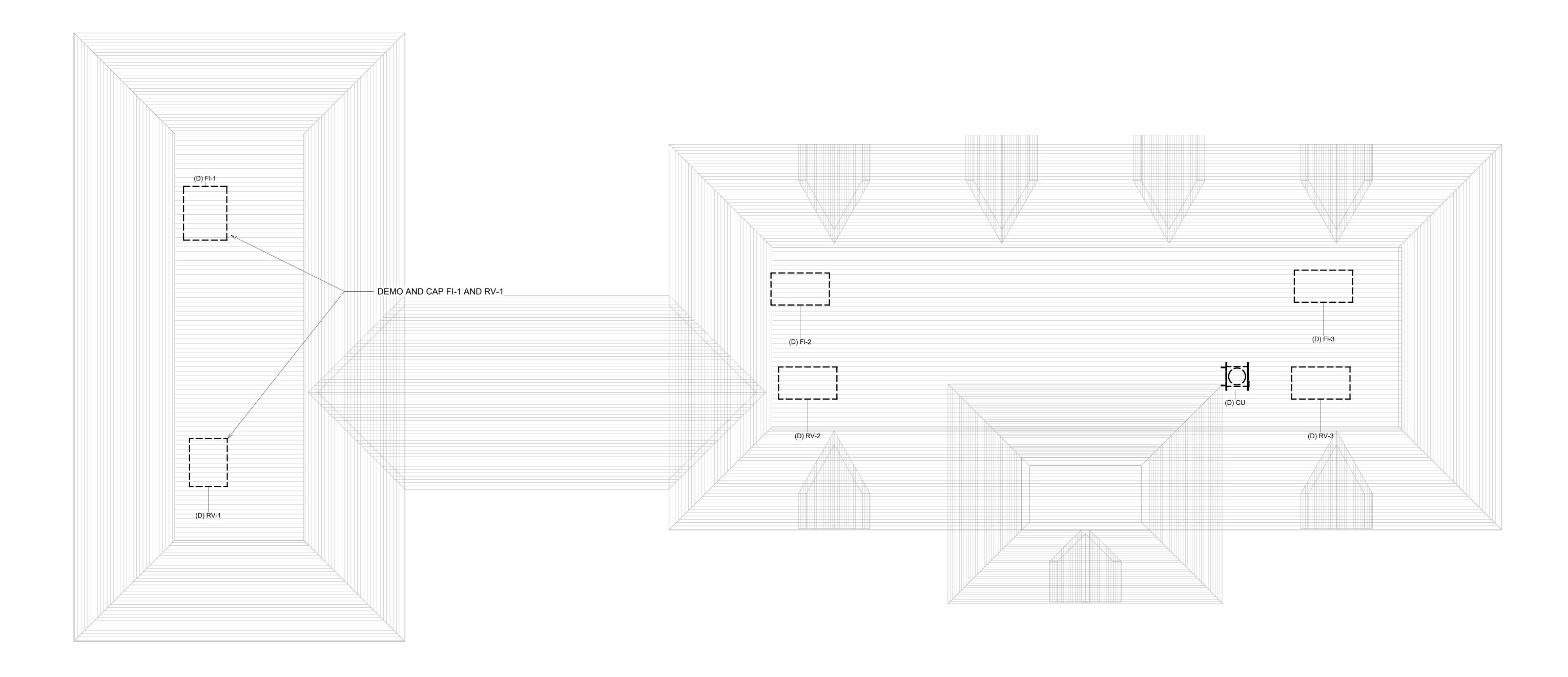
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(D) ROOF PLAN 3/16" = 1'-0"

	<u>ME</u>	P ENGINEER:	
	And	Ire Gill Engineering	
ADDENDUM 3	10MAY22	0 (
ADDENDUM 2		40 Overlea Road	
ADDENDUM 1	04APR22 Nor	North Smithfield, RI 02	
ISSUE FOR BID	01MAR22	01.441.3414	
CLIENT REVIEW		www.andregillengi	
Revision:	Date:		

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CONSULTANTS

ring, LLC

02896

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gineering.com

DEMO NOTES

EXISTING CONDITIONS SHOWN ARE BASED ON AND NON-DESTRUCTIVE FILED INVESTIGATION. FIELD Α. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

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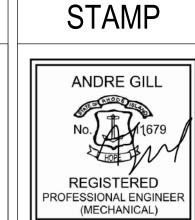
PATCH PENETRATIONS THAT ARE NOT USED FOR NEW HVAC SYSTEM. COORDINATE WITH Β. ARCHITECTURAL WORK.

3

ARCHITECT: Saccoccio & Associates

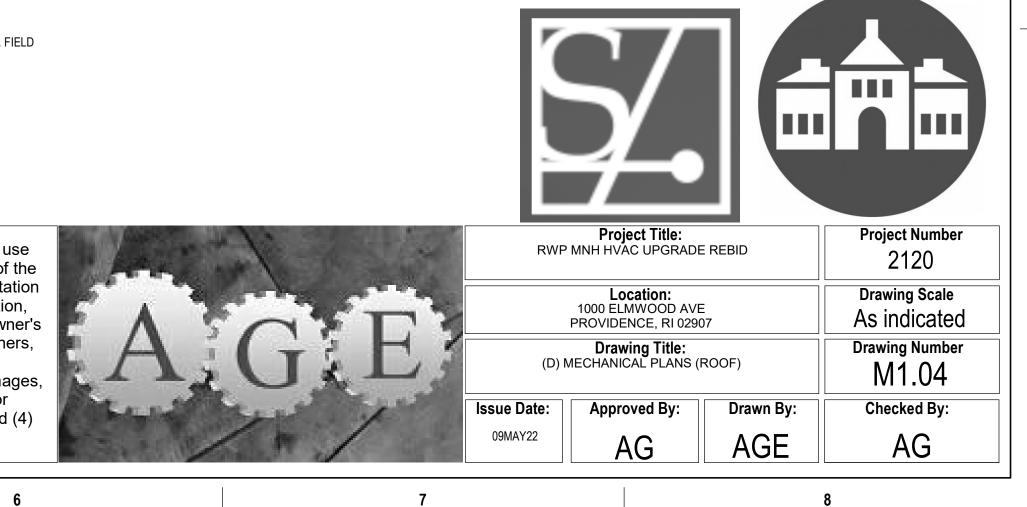
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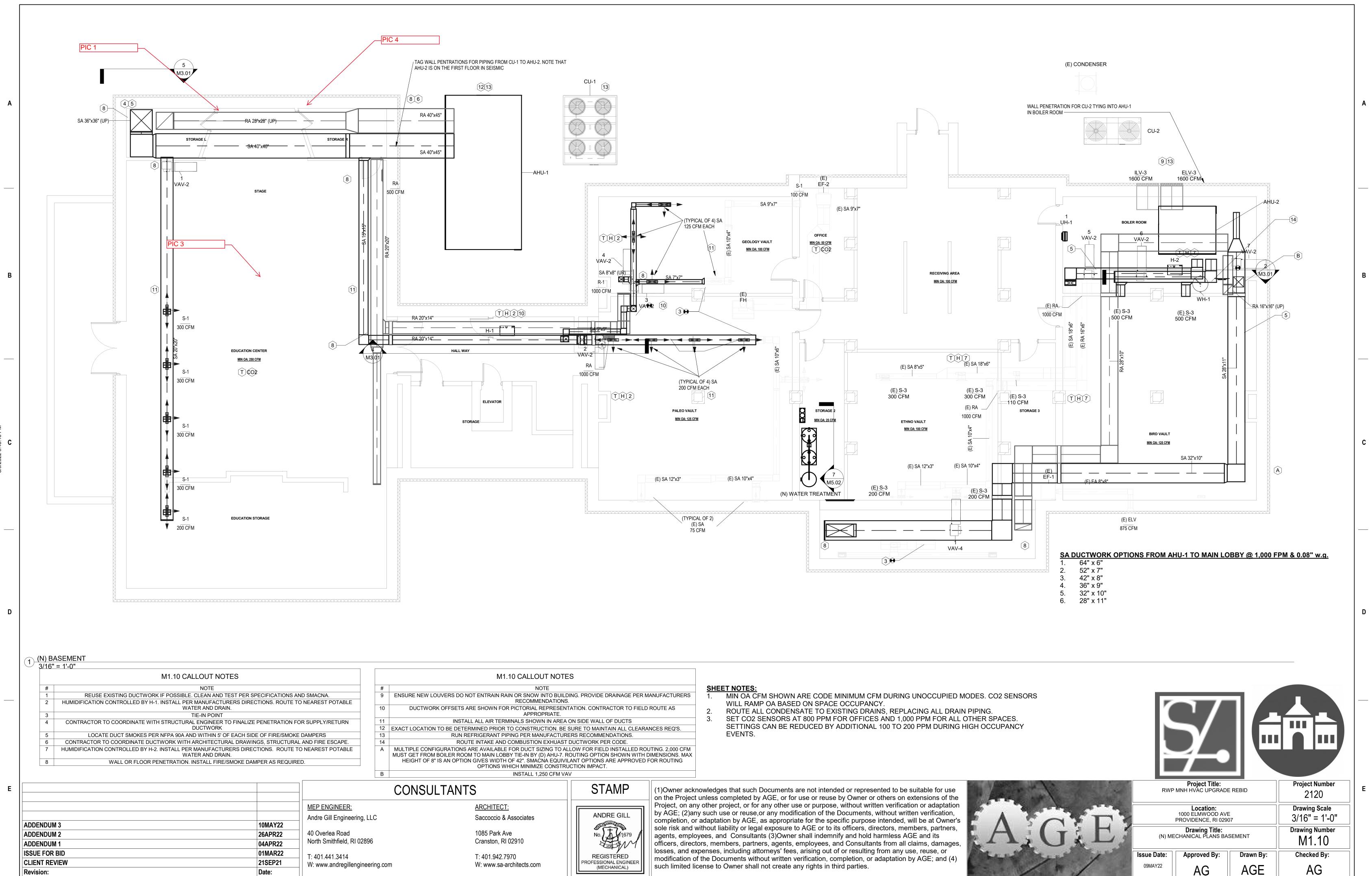
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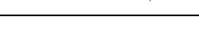
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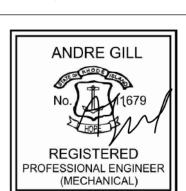


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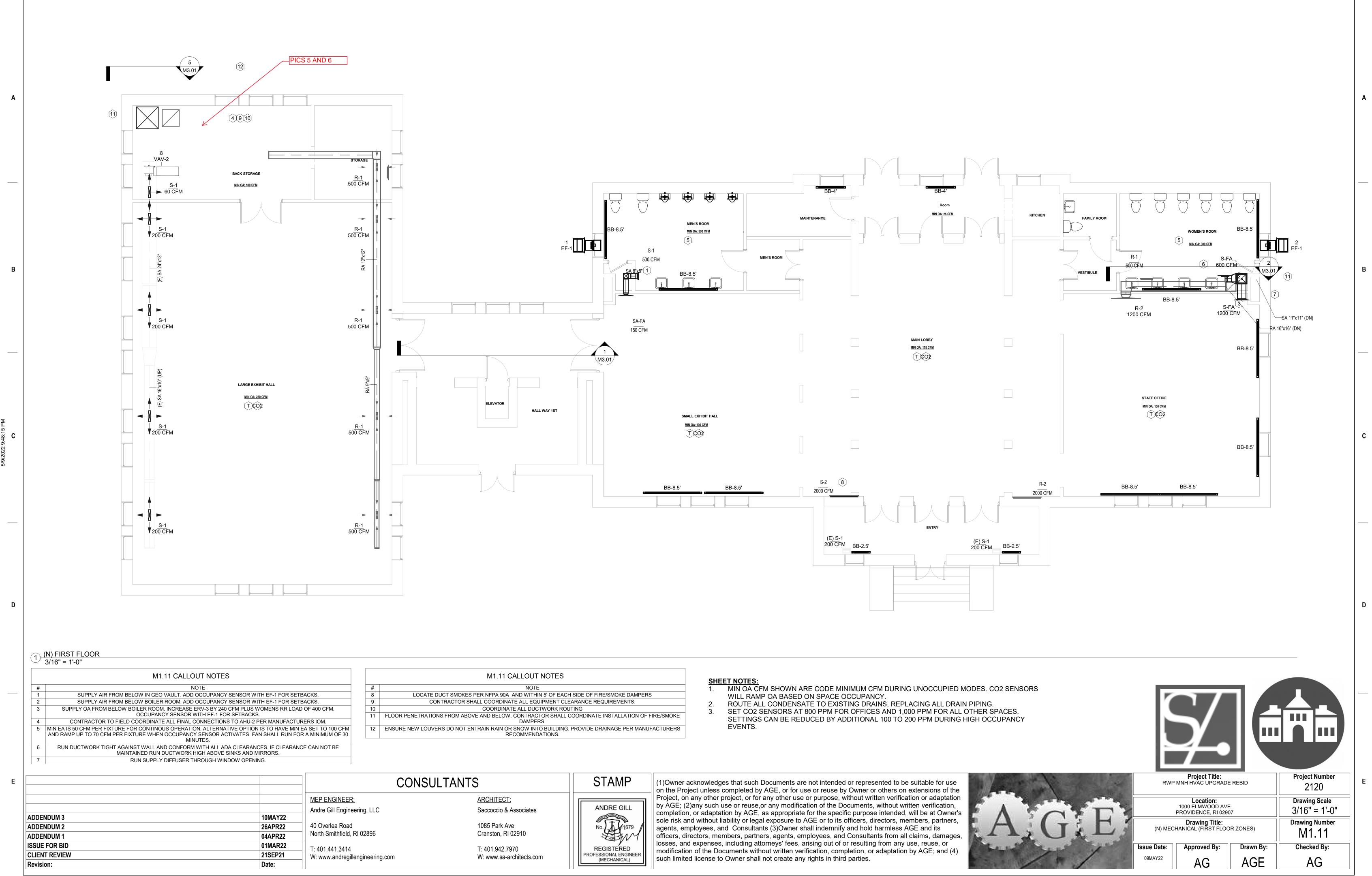


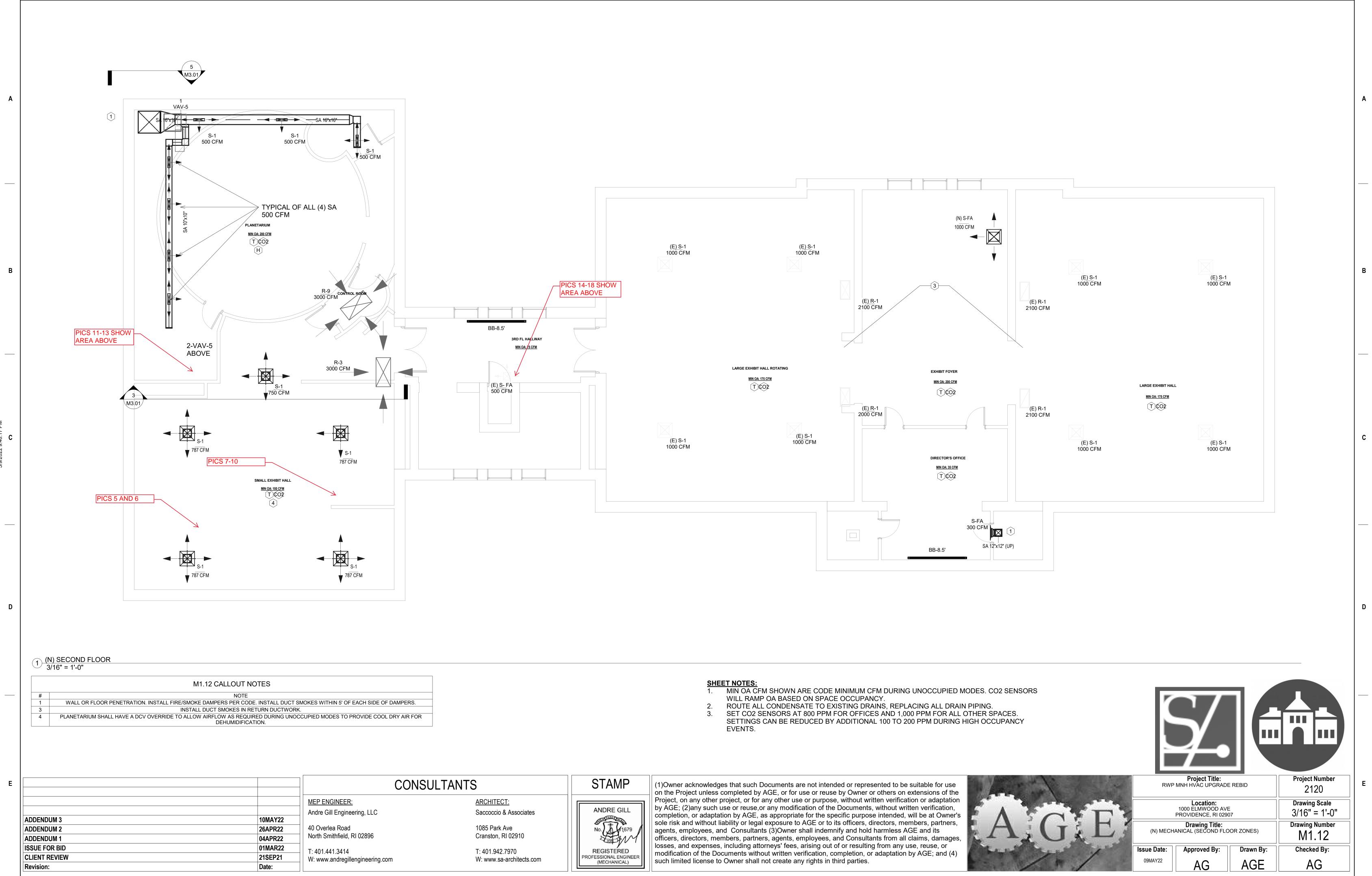
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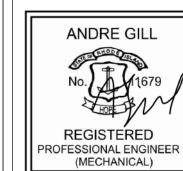




	M1.12 CALLOUT NOTES
#	NOTE
1	WALL OR FLOOR PENETRATION. INSTALL FIRE/SMOKE DAMPERS PER CODE. INSTALL DUCT SMOKES WITHIN 5' OF EACH SIDE OF DAMPERS.
3	INSTALL DUCT SMOKES IN RETURN DUCTWORK.
4	PLANETARIUM SHALL HAVE A DCV OVERRIDE TO ALLOW AIRFLOW AS REQUIRED DURING UNOCCUPIED MODES TO PROVIDE COOL DRY AIR FOR DEHUMIDIFICATION.

		_
		Andre Gill Engine
ADDENDUM 3	10MAY22	
ADDENDUM 2	26APR22	40 Overlea Road
ADDENDUM 1	04APR22	Andre Gill Engi 40 Overlea Roa North Smithfield
ISSUE FOR BID	01MAR22	T: 401.441.3414
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Revision:	Date:	3



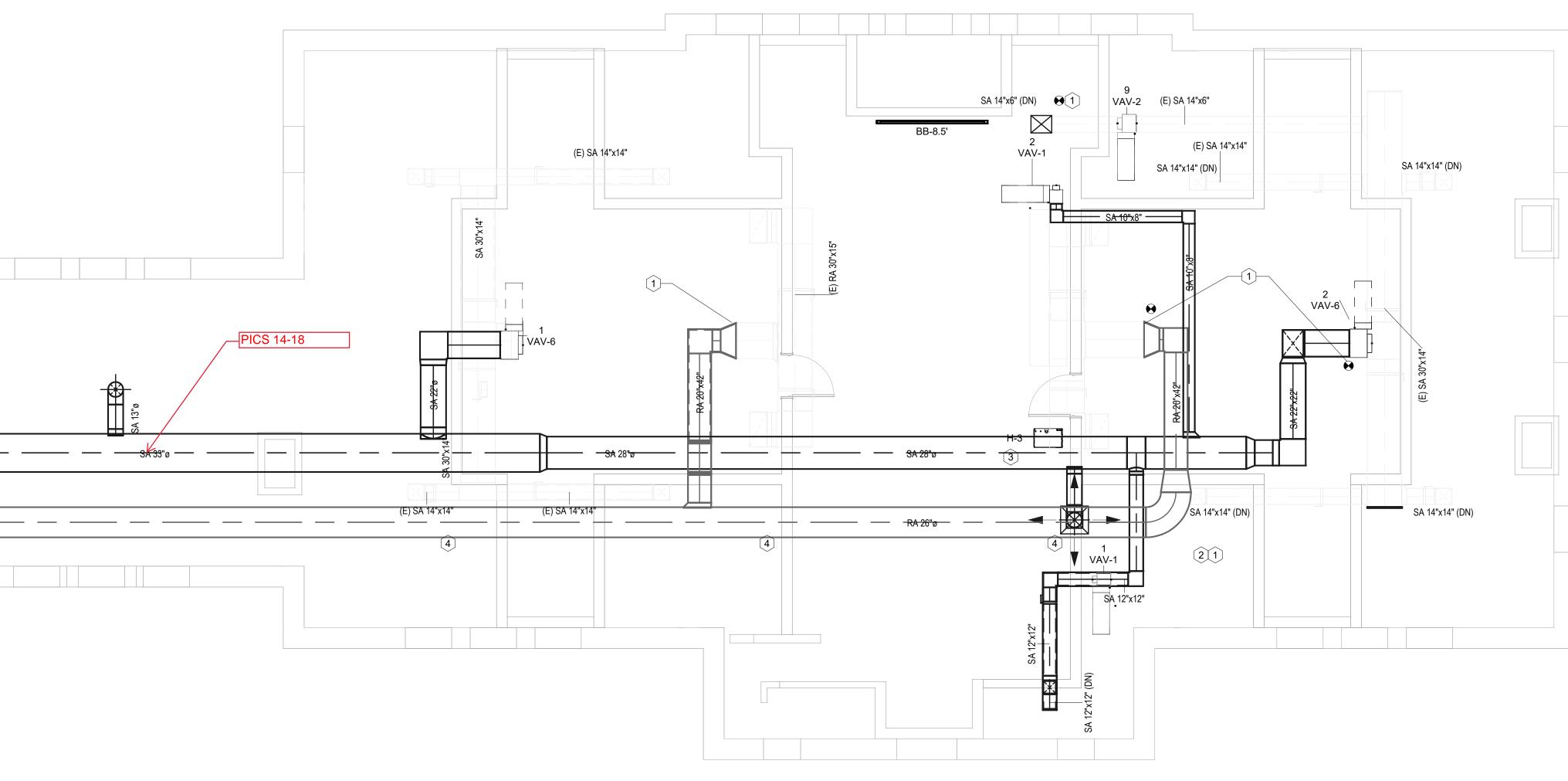


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PICS 11-13 -SA-36"ø VAV-SA 14"ø 🛛 🕻 **}+}} \$**A 14"ø− [4] C+) SA 14"ø — SA 14"ø — — — — D (N) 3RD FLOOR 3/16" = 1'-0" M1.13 CALLOUT NOTES NOTE # TIE-IN POINT TO EXISTING DUCTWORK. _____ SEPARATE DUCTWORK TO SUPPLY DIRECTLY TO DIRECTORS OFFICES. HUMIDIFICATION CONTROLLED BY H-3. INSTALL PER MANUFACTURERS DIRECTIONS. ROUTE TO NEAREST POTABLE WATER AND DRAIN. 4 INSTALL FIRE DAMPER ARE REQUIRED PER CODE. INSTALL DUCT SMOKES WITHIN 5' OF EACH SIDE OF THE DAMPER CONSULTANTS MEP ENGINEER: Andre Gill Engineering, LLC ADDENDUM 3 10MAY22 40 Overlea Road ADDENDUM 2 26APR22 North Smithfield, RI 02896 04APR22 ADDENDUM 1 01MAR22 **ISSUE FOR BID** T: 401.441.3414 **CLIENT REVIEW** 21SEP21 W: www.andregillengineering.com Revision: Date: 3 1 2

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SHEET NOTES:

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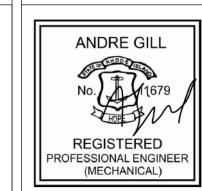
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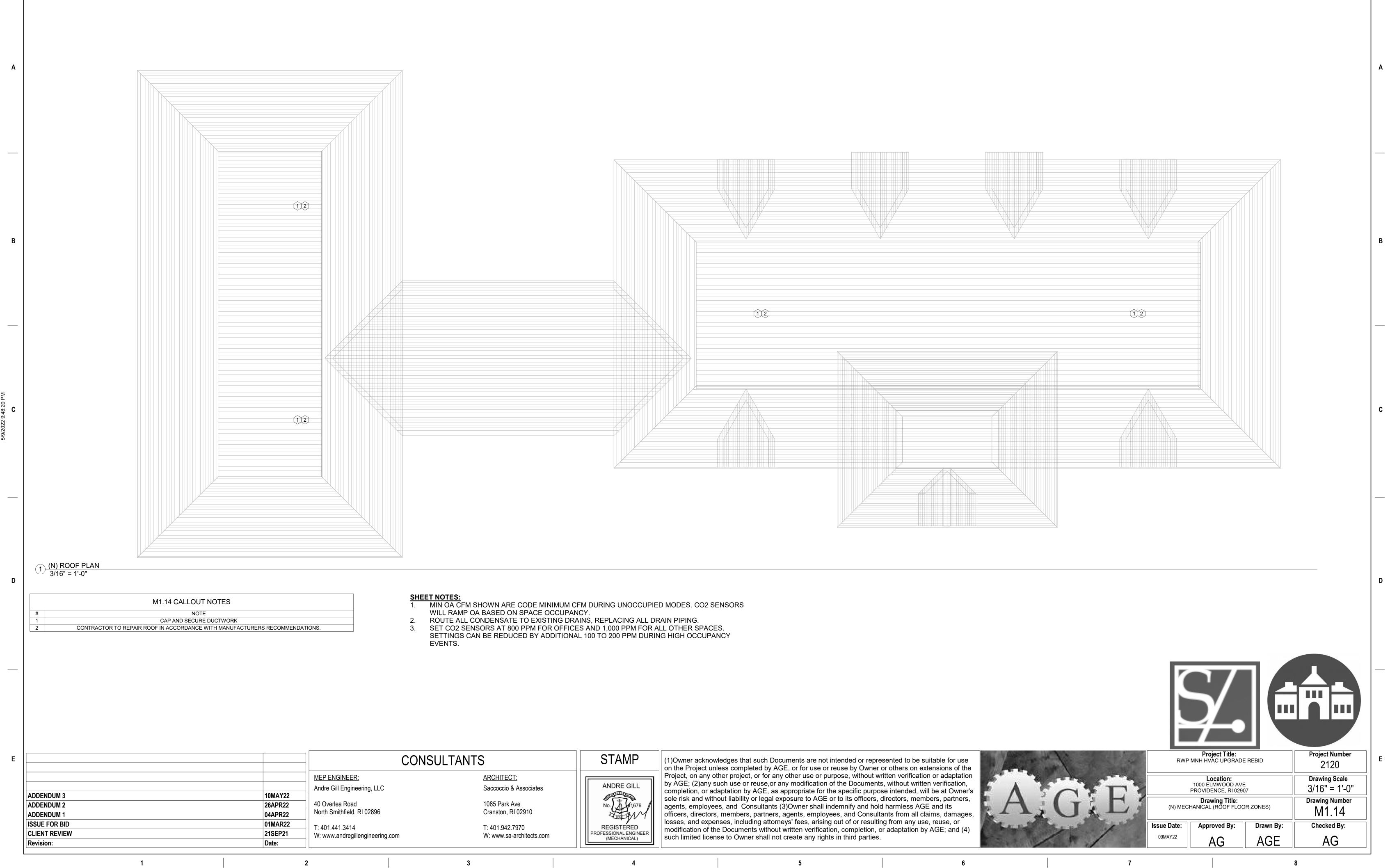
STAMP

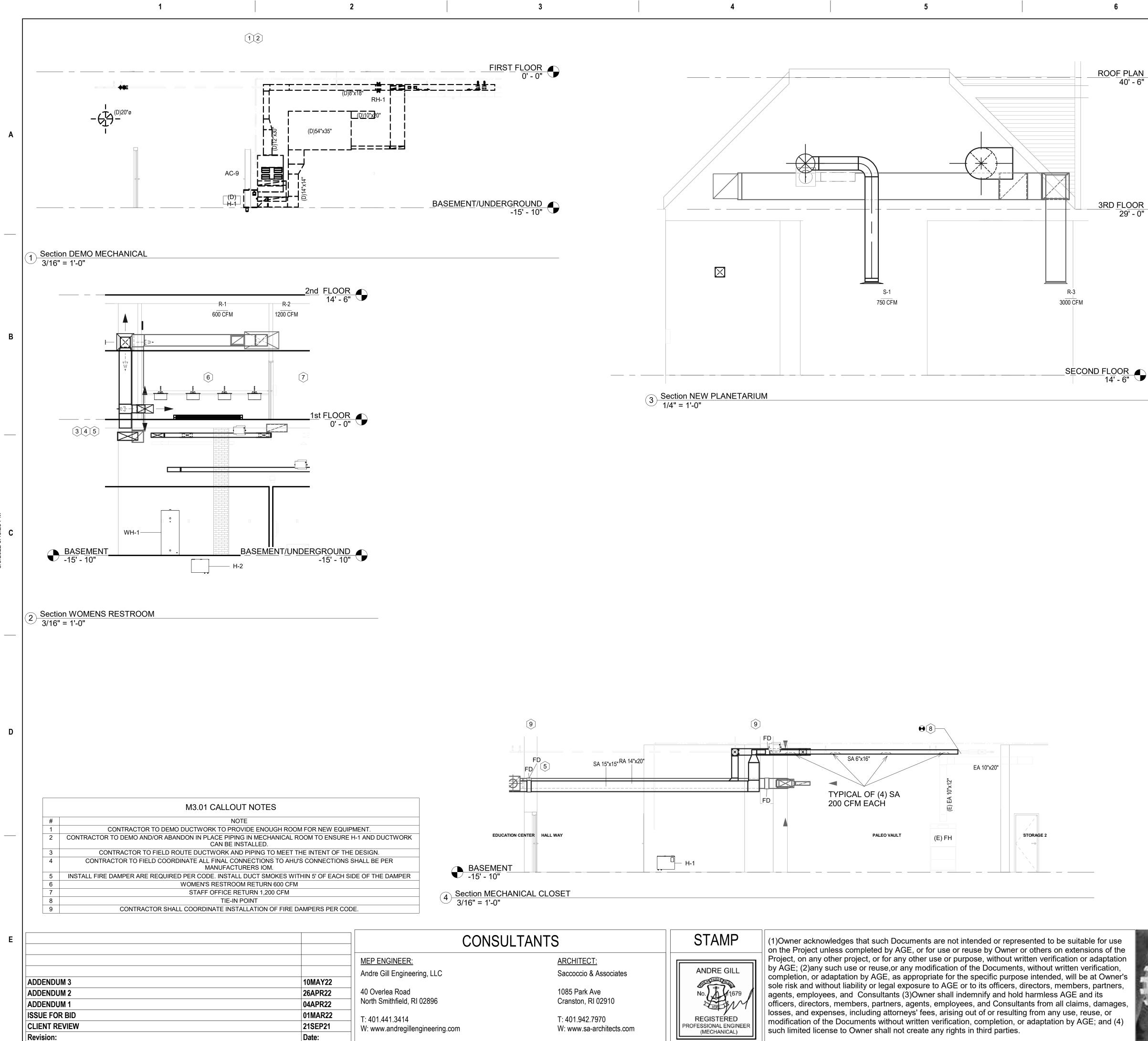
MIN OA CFM SHOWN ARE CODE MINIMUM CFM DURING UNOCCUPIED MODES. CO2 SENSORS WILL RAMP OA BASED ON SPACE OCCUPANCY. ROUTE ALL CONDENSATE TO EXISTING DRAINS, REPLACING ALL DRAIN PIPING. 2. SET CO2 SENSORS AT 800 PPM FOR OFFICES AND 1,000 PPM FOR ALL OTHER SPACES. 3 SETTINGS CAN BE REDUCED BY ADDITIONAL 100 TO 200 PPM DURING HIGH OCCUPANCY EVENTS. Project Title: RWP MNH HVAC UPGRADE REBID Project Number (1)Owner acknowledges that such Documents are not intended or represented to be suitable for use 2120 on the Project unless completed by AGE, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by AGE; (2)any such use or reuse, or any modification of the Documents, without written verification, Location: 1000 ELMWOOD AVE PROVIDENCE, RI 02907 Drawing Scale 3/16" = 1'-0" completion, or adaptation by AGE, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to AGE or to its officers, directors, members, partners, Drawing Number Drawing Title: (N) MECHANICAL (THIRD FLOOR ZONES) agents, employees, and Consultants (3)Owner shall indemnify and hold harmless AGE and its M1.13 officers, directors, members, partners, agents, employees, and Consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the Documents without written verification, completion, or adaptation by AGE; and (4) Approved By: Checked By: Issue Date: Drawn By: such limited license to Owner shall not create any rights in third parties. 09MAY22 AGE AG AG

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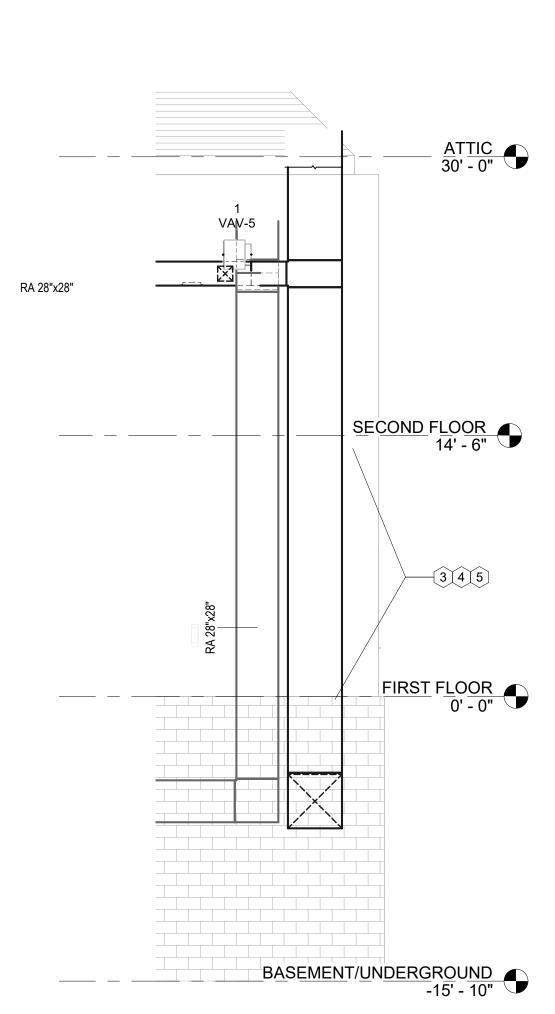
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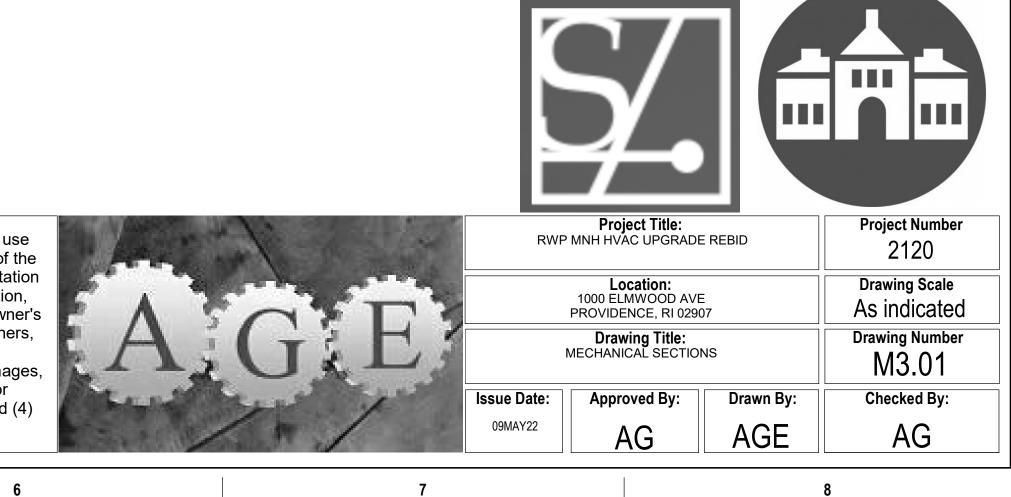
5 Section NEW AHU 2 DUCTWORK 3/16" = 1'-0"

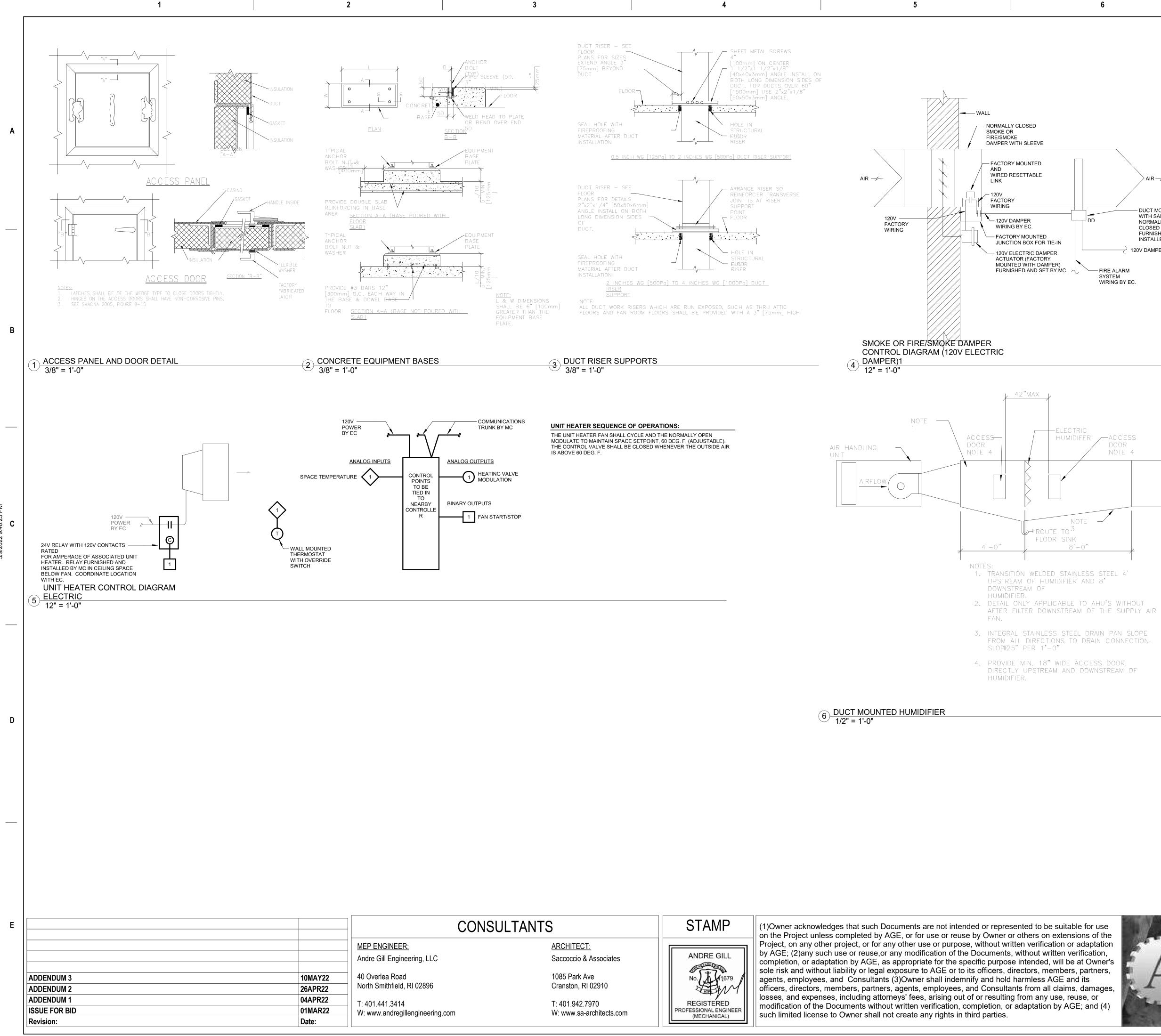


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3RD FLOOR 29' - 0"

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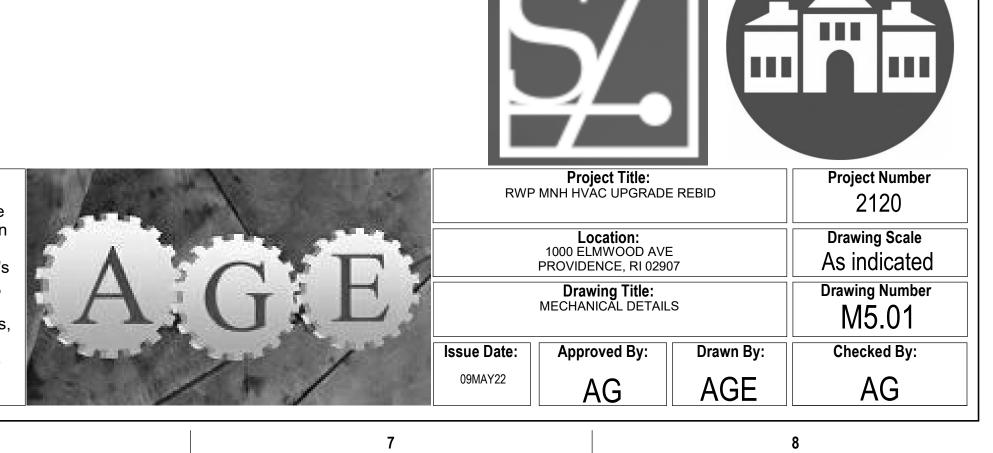
- 3. INTEGRAL STAINLESS STEEL DRAIN PAN SLOPE
- FROM ALL DIRECTIONS TO DRAIN CONNECTION.
- 4. PROVIDE MIN. 18" WIDE ACCESS DOOR. DIRECTLY UPSTREAM AND DOWNSTREAM OF

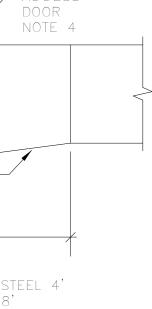
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DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBES AND NORMALLY CLOSED AUXILIARY CONTACTS FURNISHED AND WIRED BY EC AND INSTALLED IN THE DUCT BY MC. ✓ 120V DAMPER POWER BY EC.

AIR -/--

THE DAMPER SHALL BE POWERED OPEN AND FAIL CLOSED.

SMOKE DAMPER SEQUENCE OF OPERATIONS:

7

UPON DETECTION OF SMOKE BY THE DUCT MOUNTED SMOKE DETECTOR, THE DETECTOR SHALL INTERRUPT POWER AND CLOSE THE DAMPER.

THE FIRE ALARM SYSTEM SHALL ALARM THE BAS TO SHUTDOWN THE ASSOCIATED AHU.

UPON RISE IN AIRFLOW TEMPERATURE ABOVE 165 DEG F, THE RESETTABLE LINK SHALL INTERUPT POWER AND CLOSE THE DAMPER. THE LINK SHALL BE RESETTABLE VIA PUSHBUTTON.

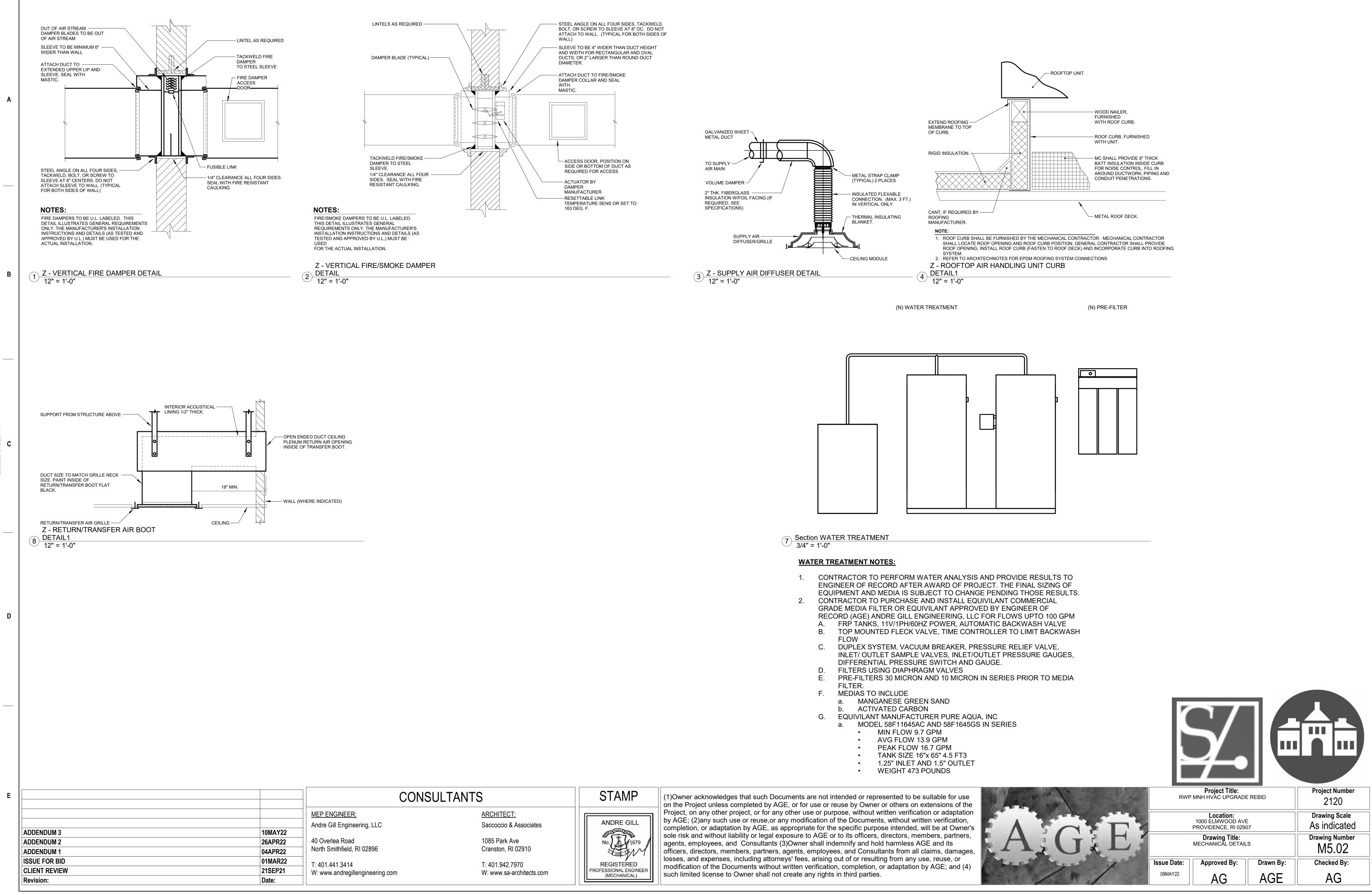
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MARK	MANUFACTURER	COOLING	(BTU/HR)	HEATING	(BTU/HR)		I OUTDOOR IP DB (F)	HEATING O TEMP W		EER	
CU-1 CU-2	Trane Trane	786, 300,		N//						11.2 12	
1. SEI	E CUTSHEETS FOR F	FULL SPECIF	FICATIONS.								
									TER FILTER	र	
MA	ARK MANUF	ACTURER	MODEL	NUMBER (TANKS		/IN # OF GRAINS	MAX # GRAIN		MIN (GPM)) FLOW (GI
			MF-400	2					9.7	13.	
2. TAN 3. THE	IK 1 58F1645AC IS AI IK 2 58F1645GS IS A INFORMATION IN T JTE ALL WASTE TO I	GREENSAN	D FILTER TO LE IS PER T) REDUCE FE ANK, WITH B	E, MN AND RINE CAPA	H2S REDU	CTION WITH	GRAIN CAPAC 1INED	CITY TO BE	DETERM	111
MARK	Type Mark MANU	FACTURER	U	NIT HEATER			R OF POLES	KW	NOTES		
1		MODINE	VE 75	25,600	208		3	7.5	NOTES		
			10	ATER HEATE							
Mark	MANUFACTURER	MODEL	KW	FIRST HO RATING (G	UR	NOMINAL PACITY (G/	STORAG		VOLTAGI	WARF E (YF	
WH-1	AO SMITH	FPTU-80	4.5	84	., (2)	80	82	3.45	208		
			HUMIDI	FIER SCHEDU	JLE (H-#)						
Mark	MANUFACTURER	MODEL	LBS/HR	GALS/ HR	. ,	AL SUPPLY	(V/PH/HZ)	FLA	KW		
H-1 H-2	DRISTEEM DRISTEEM	VAPORMIST VAPORMIST	12 12			208/ 1/ 60 208/ 1/ 60		19.2 19.2	4 4		
H-3	DRISTEEM	VAPORMIST	12			208/ 1/ 60			4		
BB-2.5' BB-4' BB-8.5'	QMARK QMARK QMARK	1,706 3,413 8,533	500 1,000 2,500		2'6" 4' 8'6"		2 2	2.4 4.8 12.0	208 208 208	1, 2, 3 1, 2, 3	
2. INS	TALL TAMPER RESIS TALL TRANSFER SW NTRACTOR SHALL PI	ITCH AS APP	PLICABLE	TALLATION	EX	HAUST FA	N (EF-#)				
TYPE MAR	RK MARK MAN	UFACTURER	CFM RAN	GE FREQUE	NCY (HZ)	PHASE	VOLTAGE	EXTERNAL S	STATIC	HP	
EF-1	Lorer	Cook Company	100-500 D					0.050		1/20	Ι
3. EXT 4. PRC	JTTER GUARD ENDED MOUNTING F DPELLER WALL FAN DCKDOWN WEATHEF JTTER DISCHARGE ATHER HOOD	WALL COLLA R HOOD		DSE DISCONN	IECT						
7. WEA 8. NEM 9. DIRI 10. ODF	/A 1 (LOCKABLE): IN ECT DRIVE										
7. WEA 8. NEM 9. DIRE 10. ODF 11. VAR 5CHEDUL 1. ALL 2. CON APP WIT	/A 1 (LOCKABLE): IN ECT DRIVE	DRIVE N WAS UTILI LOWED TO I DF RECORD HALL NOT BI	DEVIATE FR VIA SUBMIT E REIMBURS	OM THIS EQU TAL PROCES SED.	JIPMENT L	ISTED, IF I GH ARCHI ⁻	TECT OF REC	ORD PRIOR T	O PURCHA	ASE. EQU	IF
7. WEA 3. NEM 9. DIRN 10. ODF 11. VAR 5 <u>CHEDUL</u> 1. ALL 2. CON APP WIT	A 1 (LOCKABLE): IN ECT DRIVE RI-FLOW EC DIRECT EQUIPMENT SHOWI NTRACTORS ARE AL PROVED ENGINEER O	DRIVE N WAS UTILI LOWED TO I DF RECORD HALL NOT BI	DEVIATE FR VIA SUBMIT E REIMBURS	OM THIS EQU TAL PROCES SED.	JIPMENT L	ISTED, IF I GH ARCHI ⁻	TECT OF REC	ORD PRIOR T	O PURCHA	ASE. EQU	IP Tŀ
7. WEA 3. NEM 9. DIRE 10. ODF 11. VAR 5 <u>CHEDUL</u> 1. ALL 2. CON APP WIT	AA 1 (LOCKABLE): IN ECT DRIVE RI-FLOW EC DIRECT EQUIPMENT SHOWI NTRACTORS ARE AL PROVED ENGINEER O	DRIVE N WAS UTILI LOWED TO I DF RECORD HALL NOT BI	DEVIATE FR VIA SUBMIT E REIMBURS	OM THIS EQU TAL PROCES SED.	JIPMENT L		TECT OF REC	ORD PRIOR T	O PURCHA	ASE. EQU RINGENT	IF TI
7. WEA 3. NEM 9. DIRN 10. ODF 11. VAR 5 <u>CHEDUL</u> 1. ALL 2. CON APP WIT	AA 1 (LOCKABLE): IN ECT DRIVE RI-FLOW EC DIRECT EQUIPMENT SHOWI NTRACTORS ARE AL PROVED ENGINEER O	DRIVE N WAS UTILI LOWED TO I DF RECORD HALL NOT BI	DEVIATE FR VIA SUBMIT E REIMBURS	OM THIS EQU TAL PROCES SED.	JIPMENT L	ISTED, IF E GH ARCHI ⁻ CTURAL D	TECT OF REC	ORD PRIOR T	O PURCHA	ASE. EQU RINGENT	IP Tŀ

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ADDENDUM 3	10MAY22
ADDENDUM 2	26APR22
ADDENDUM 1	04APR22
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	CONDENSING UN	IITS (CU-X)								
EER	INVERTER DRIVEN COMPRESSOR TYPE/ QUANTITY	SOUND PRESSURE (DBA)	COP	CONNECTED CAPACITY	RFS	MCA (A)	MOCP (A)	ELECTRIC AL SUPPLY (V/PH/HZ)	WEIGHT (LBS)	Comments
11.2				60 TON		120	125	460/60/3	3,462	
12				25 TON	60	49	49	460/60/3	857	

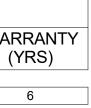
		TANK SIZE (D"	TANK SIZE	ELECTRICAL	WEIGHT	
_OW (GPM)	FLOW MAX (GPM)	`	BRINE (D" X H")	SUPPLY (V/PH/HZ)	(LBS)	NOTES
13.9	16.7	16" X 65"		115/ 1 /60	196/ 473	1, 2, 3

CITY TO BE DETERMINED BASED ON MANUFACTURER ERMINED BASED ON MANUFACTURER

TELY SIZED DRAIN.

AIR HANDL	ING UNIT SCHEDULE	: (AHU-X)														
			SUPPLY	EXTERNAL		RETURN	TOTAL					ELECTRICAL	COOLING ENERGY	HEAT CAPACITY	WEIGHT	
MARK	MANUFACTURER	MODEL	(CFM)	STATIC	OA (CFM)	(CFM)	STATIC (" w.g)	MCA (A)	MOCP (A)	MOP (A)	HP	SUPPLY (V/PH/HZ)	FROM COIL (BTU/HR)	OUTPUT (MBH)	(LBS)	Schedule
AHU-1	TRANE	CSAA050	23,067	3.00	6,000	23,067	4.689	183.38	200	200	26.4	460/3/60	720,000	497,810	9,242	AHU
AHU-2	TRANE	UCCAA17	6,133	2.903	3,200	6,133	2.903	85	90	90	15	460/3/60	183,990	201,490	1,538	AHU

1. SEE CUTSHEETS FOR FULL SPECIFICATIONS.



				VARI	ABLE AIR V	ALVES (#-VA	.V-#)			
						SUM	IMER	WIN	TER	
TYPE MARK	MARK	ROOM SERVED	MANUFACTURER	MAX CFM	OA CFM	INDOOR T (DB)	INDOOR RH (%)	INDOOR T (DB)	INDOOR RH (%)	NOTES
VAV-1	1	DIRECTORS OFFICE	TRANE	500	150	75	50	70	N/A	
VAV-1	2	ATTIC ARCHIVES	TRANE	500	150	75	50	70	50	2
VAV-2	1	EDUCATION CENTER	TRANE	1,400	450	75	50	70		
VAV-2	2	PALEO VAULT	TRANE	1,400	330	75	55	70		2
VAV-2	3	GEO VAULT	TRANE	1,400	330	75	55	70		2
VAV-2	4	SMALL EXIBIT	TRANE	1,400	360	75	55	70		ADDITIONAL CAPACITY IS FOR MEN'S RESTROOM
VAV-2	5	ETHO VAULT	TRANE	1,400	360	75	55	70		2
VAV-2	6	BIRD VAULT	TRANE	1,400	330	75	55	70		2
VAV-2	7	STAFF OFFICE	TRANE	1,400	405	75	50	70		ADDITIONAL CAPACITY IS FOR WOMEN'S RESTROC
VAV-2	8	SEISMIC	TRANE	1,400	345	75	55	70		
VAV-2	9	MAIN LOBBY ABOVE	TRANE	1,400	330	75	55	70		
VAV-4	1	MAIN LOBBY	TRANE	2,000	600	75	55	70		
VAV-5	1	PLANETARTIUM	TRANE	3,000	900	75	50	70		
VAV-5	2	SMALL EXIBIT	TRANE	3,000	900	75	55	70		
VAV-6	1	LARGE EXHIBIT ROTATING	TRANE	4,000	1,200	75	55	70		
VAV-6	2	LARGE EXHIBIT	TRANE	4,000	1,200	75	55	70		

MAX NOISE CRITERIA WITH INDUSTRY STANDARD 10 dB ROOM ABSORPTION: 1 A. OFFICES: NC-25

B. CLASSROOMS: NC-20

C. CONFERENCE ROOMS: NC-20

D. VAULTS/ ARCHIVES/ EXHIBITS/ PLANETARIUM SHALL BE: NC-25

2. ACTIVE HUMIDIFICATION CONTROL

Ρ	RPM	WATTS	NOTES
20	1075	57	

ECIFICATIONS IS DEMONSTRATED AND EQUIPMENT THAT IS PURCHASED

NT THEN THESE NOTES.

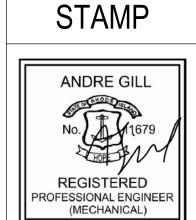
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ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

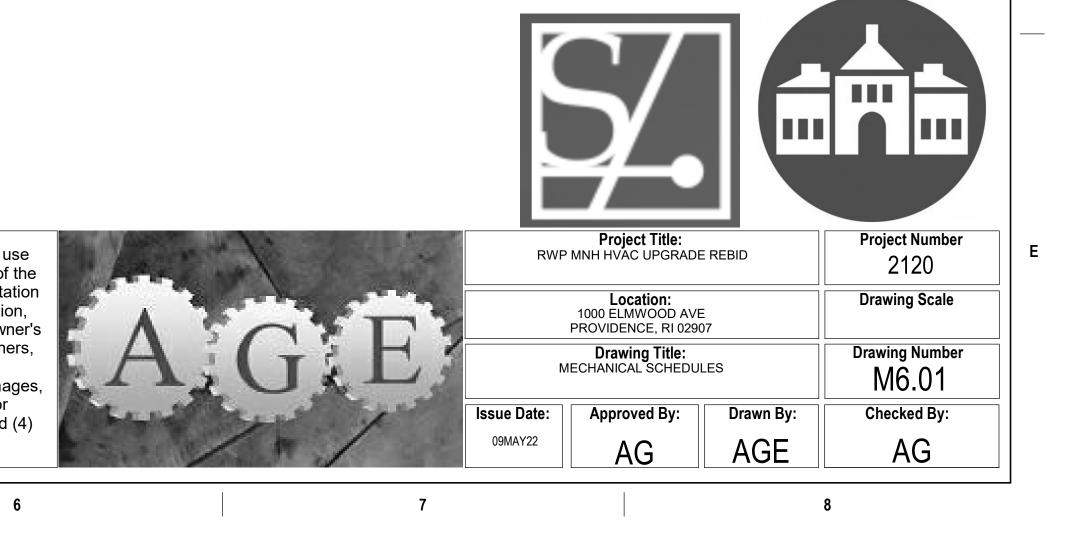
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С

System Point Description					POINT	S						ALA	ARMS		
COMPRESSOR 1 COMMAND	CRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	× BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	
CMP1 COMPRESSOR 2 COMMAND	X				X										
CMP2 CONDENSATE OVERFLOW DETECTION	X		X									X	X		
LO CND OVRFL COOLING COIL LEAVING TEMPERATURE CC LAT	X	x								X	x			X	
DISCHARGE AIR TEMPERATURE	X	X								x	x			x	+
DAT DISCHARGE AIR STATIC PRESSURE LOCAL DA SP	X	X								x			X	X	
FILTER STATUS FIL	X		X									X			
HEAT ENABLE	x	-	+		x			-	-	-					+
HT ENA HIGH STATIC ALARM HSP ALM	x		x									X	X		+
HIGH STATIC ALARM INTERLOCK							X								+
HSP INTLK MIXED AIR DAMPER COMMAND	x			x											+
MAD MIXED AIR TEMPERATURE LOCAL MAT	x	X									x			X	+
OUTDOOR AIR DAMPER COMMAND					x										+
OAD OUTDOOR AIR DAMPER COMMAND	x			x											+
OAD OUTDOOR AIR RELATIVE HUMIDITY LOCAL OAH	X	X													+
OUTDOOR AIR TEMPERATURE LOCAL OAT	X	X													
REHEAT LEAVING COIL TEMPERATURE LOCAL RH LAT RELIEF AIR DAMPER COMMAND	X	X		X						X	X			X	
RELIEF AIR DAMPER COMMAND RLF DPR RELIEF AIR FAN SPEED OUTPUT	X			X											+
COMMAND RLF				×											
RELIEF AIR FAN START STOP RLF	X				X										
RETURN AIR CO2 LOCAL RA CO2	X	X								X					
RETURN AIR TEMPERATURE LOCAL RAT	X	X													T
RETURN FAN AIR FLOW LOCAL RAF FLW	X	X													
RETURN FAN HIGH STATIC ALARM RAF HSP ALM RETURN FAN SPEED OUTPUT	X X		X	X								X	X		+
COMMAND RAF RETURN FAN START STOP COMMAND RAF	X				x										
RETURN FAN STATUS	x		x												+
RAF SPACE HUMIDITY LOCAL	x							X						X	+
SPH SPACE STATIC PRESSURE LOCAL	x	X								x	x				+
SPP SUPPLY FAN SPEED COMMAND	x			x											+
SAF SUPPLY FAN START STOP COMMAND SAF	X				X										
SUPPLY FAN STATUS SAF	X		X												+
SUPPLY SMOKE DETECTOR INPUT SA SD							X								Ť
BAS COMMUNICATION STATE BAS COM						X									
DISCHARGE AIR COOLING SETPOINT DA CL SP						X									
DISCHARGE AIR HEATING SETPOINT DA HT SP MAINTENANCE REQUIRED						X									
MAINTENANCE REQUIRED MNT REQ MIXED AIR TEMPERATURE LOW LIMIT						X						^ 			+
SETPOINT MA LLT STPT															
OCCUPIED COOLING SETPOINT OCC CLG STPT	X					X									1
OCCUPIED HEATING SETPOINT OCC HTG STPT	x					X									1
RETURN FAN FAILURE RF FAIL	X					X						X			+
SUPPLY FAN FAILURE SF FAIL	x					x						X			+
UNOCCUPIED COOLING SETPOINT UNOCC CLG STPT	X					X									1
UNOCCUPIED HEATING SETPOINT	X					X									T

RLF DPR (AO)

OAT (AI) OAH (AI) OA

SEQUENCE OF OPERATION: AHUS

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BUILDING AUTOMATION SYSTEM INTERFACE:

OCCUPIED:

DURING OCCUPIED PERIODS, THE SUPPLY FAN AND RETURN FAN SHALL RUN CONTINUOUSLY, AND ALARM SHALL ANNUNCIATE AT THE BAS. ECONOMIZER: THE MIXED AIR DAMPERS SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE ENABLE: OUTSIDE AIR (OA) ENTHALPY SHALL BE COMPARED WITH RETURN AIR (RA) ENTHALPY RELIEF AIR DAMPER SHALL MODULATE BY TRACKING THE MIXED AIR DAMPERS <u>DISCHARGE AIR TEMPERATURE RESET CONTROL</u> POINT. THE ECONOMIZER SHALL ENABLE WHEN OA ENTHALPY IS LESS THAN RA ENTHALPY - 2.0 THE DX COOLING AND THE ELECTRIC HEAT SHALL CONTROL TO MAINTAIN THE ACTIVE DISCHARGE THE DISCHARGE AIR TEMPERATURE SHALL BE CONTROLLED TO A FIXED SETPOINT. THE BTU/LB. THE ECONOMIZER SHALL DISABLE WHEN OA ENTHALPY IS GREATER THAN RA ENTHALPY. AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTDOOR AIR OR MIXED AIR DISCHARGE AIR TEMPERATURE SHALL NOT BE RESET BASED UPON SPACE CONDITIONS OR OPERATION: WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING DAMPERS SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE OUTDOOR AIR CONDITIONS. ALSO, THE BAS SHALL OVERRIDE THIS RESET FUNCTION WHENEVER MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND RELIEF AIR DAMPER SHALL TRACK THE MIXED AIR DAMPERS. THE DISCHARGE AIR TEMPERATURE OUTDOOR DEW POINT IS HIGHER THAN 60.0 DEG. F (ADJ.) OR INDOOR HUMIDITY (MEASURED AT THE 100% TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE SOURCE OF CONTROL) IS HIGHER THAN 60% RH (ADJ.). IF THE DISCHARGE AIR TEMPERATURE MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT. IF THE DISCHARGE AIR DROPS BELOW THE MINIMUM LIMIT, A LOW TEMPERATURE ALARM SHALL ANNUNCIATE, AND THE BELOW THE LOW TEMPERATURE LIMIT SETTING. TEMPERATURE SENSOR FAILS, THE DX COOLING AND ELECTRIC HEAT SHALL BE DISABLED AND AN UNIT SHALL SHUT DOWN. IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT, ALARM SHALL ANNUNCIATE AT THE BAS A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE.

USING A RETURN CO2 INPUT (LOCAL SENSOR OR NETWORK COMMUNICATED VALUE), THE **UNOCCUPIED** SUPPLY FAN: CONTROLLER SHALL MONITOR AND COMPARE THE MEASURED RETURN CO2 TO THE RETURN CO2 WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. THE SUPPLY FAN SHALL BE OFF IN THE UNOCCUPIED MODE. THE SUPPLY FAN SHALL BE ON IF THI CONCENTRATION SETPOINT (ADJ.). WHEN THE MEASURED RETURN CO2 CONCENTRATION (ADJ.) THE SUPPLY FAN AND RETURN FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CONTROL IS HEATING OR COOLING IN THE UNOCCUPIED MODE. WHEN THE CONTROLLER IS IN THE REACHES THE SETPOINT (ADJ.), THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN CLOSED AND THE ELECTRIC HEAT SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES OCCUPIED MODE. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND ITS SPEED SHALL BE INCREMENTALLY UNTIL THE RETURN AIR CO2 LEVEL IS SATISFIED OR THE OUTSIDE AIR DAMPER ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) PLUS THE UNOCCUPIED MODULATED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. THE DUCT STATIC PRESSURE REACHES THE FULL OPEN POSITION. IF THE MEASURED CO2 CONCENTRATION FALLS, THE OUTSIDE DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN AND RETURN FAN SHALL STOP AND THE SETPOINT SHALL BE SENT BY THE BAS AND IS RESET BETWEEN THE MINIMUM AND MAXIMUM AIR DAMPER SHALL MODULATE TOWARD NORMAL ECONOMIZER OPERATION. IF THE MIXED AIR ELECTRIC HEAT SHALL BE DISABLED. STATIC PRESSURE LIMITS TO MAINTAIN THE CRITICAL ZONE VAV AIR DAMPER IN A POSITION TEMPERATURE DROPS BELOW THE MIXED AIR LOW LIMIT SETPOINT THE CO2 SENSOR INPUT IS WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F BETWEEN 65% AND 75% OPEN. OVERRIDDEN AND THE OUTSIDE AIR DAMPER WILL BE MODULATED CLOSED TO MAINTAIN THE (ADJ.) THE SUPPLY FAN AND RETURN FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO MIXED AIR TEMPERATURE LOW LIMIT SETPOINT. WHEN THE MIXED AIR TEMPERATURE RISES ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE DX RESTART THE FAN ABOVE THE MIXED AIR LOW LIMIT SETPOINT, CO2 OPERATION IS RESTORED. COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) **RETURN FAN: BUILDING PRESSURE CONTROL (RELIEF AIR):** THE SUPPLY FAN AND RETURN FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED AND THE THE RETURN FAN SHALL BE OFF IN THE UNOCCUPIED MODE. THE RETURN FAN SHALL BE ON IF TH WHEN THE SUPPLY FAN IS RUNNING AND THE MEASURED SPACE STATIC PRESSURE IS GREATER OUTSIDE AIR DAMPER SHALL CLOSE. CONTROL IS HEATING OR COOLING IN THE UNOCCUPIED MODE THAN THE SPACE STATIC SETPOINT OF 0.08 IN. W.C. (ADJ.), THE RELIEF AIR DAMPER SHALL IF THE RETURN FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE

MODULATE OPEN TO MAINTAIN THE SPACE STATIC PRESSURE AT SETPOINT. WHEN THE **OPTIMAL START:** COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE, ALL HEATING AND COOLING SHALL BE MEASURED SPACE STATIC PRESSURE FALLS BELOW SETPOINT BY 0.03 IN. W.C. (ADJ.), THE RELIEF THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET SHALL BE REQUIRED AIR DAMPER SHALL MODULATE CLOSED. IF THE SPACE STATIC PRESSURE SENSOR FAILS, THE SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS. TO RESTART THE FAN. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL RELIEF AIR DAMPER SHALL MODULATE PROPORTIONALLY WITH THE OUTDOOR AIR DAMPER BE REQUIRED TO RESTART THE FAN. SUPPLY AND RETURN FANS ARE INTERLOCKED VIA POSITION IF THE OUTDOOR AIR DAMPER OPENS GREATER THAN 25% (ADJ.). IF THE RELIEF FAN SOFTWARE, A FAILURE OF EITHER SHALL DISABLE BOTH. MORNING WARM-UP MODE: FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE COMMANDED OFF AND AN ALARM SHALL ANNUNCIATE AT THE BAS. HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP MIXED AIR LOW LIMIT:

DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND FAN(S). THE OUTSIDE AIR DAMPER SHALL THE INITIAL DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJ.) UNTIL THE REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:

DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:

TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT. OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.

OCCUPIED BYPASS:

THE BAS SHALL MONITOR THE STATUS OF THE ON AND CANCEL BUTTONS OF THE SPACE TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

CONSULTANTS

MEP ENGINEER: Andre Gill Engineering, LLC

40 Overlea Road

North Smithfield, RI 02896

T: 401.441.3414 W: www.andregillengineering.com

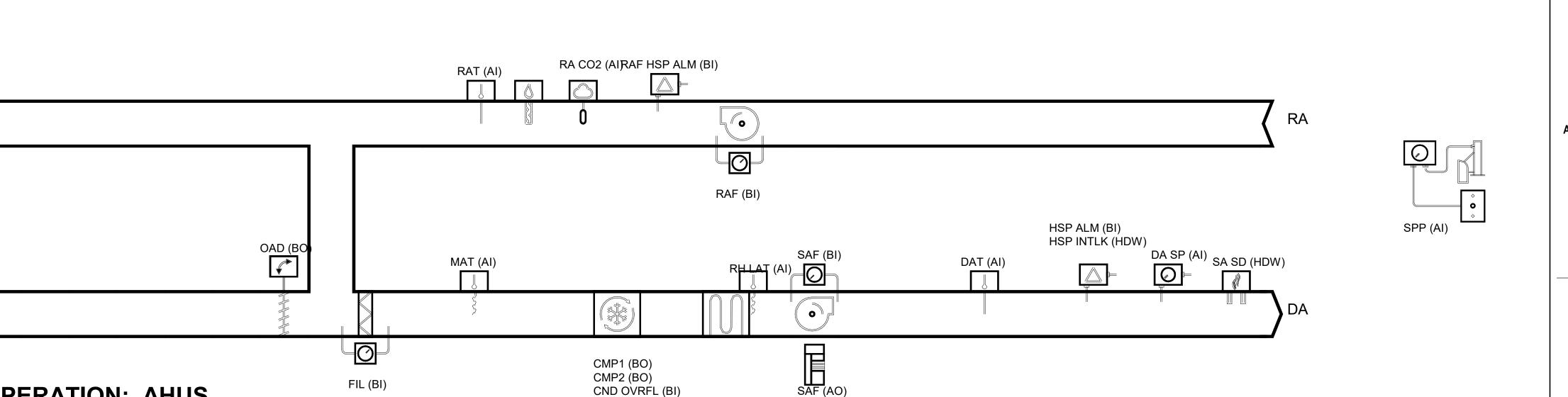
ADDENDUM 3 **ADDENDUM 2** ADDENDUM ' **Revision:**

10MAY22

26APR22

04APR22

Date:



SAF (BO)

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP/PRE-COOL. OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

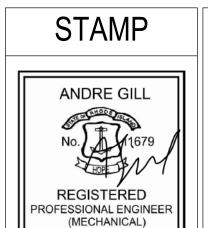
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ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

T: 401.942.7970 W: www.sa-architects.com



HEAT/COOL MODE

WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE DURING OCCUPIED PERIODS, WHEN THE SPACE TEMPERATURE IS BELOW THE DAYTIME WARM-UP SHALL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED INITIATE SETPOINT, A DAYTIME WARM-UP SEQUENCE SHALL BE ACTIVATED. THE OUTSIDE AIR HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE DAMPER SHALL MODULATE TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS, AND THE HEATING IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE SHALL ENABLE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE HEATING SETPOINT. DAYTIME MODE SHALL REMAIN IN ITS LAST STATE. IF THE SPACE TEMPERATURE SENSOR FAILS THE MODE WARM-UP SHALL TERMINATE WHEN THE AVERAGE SPACE TEMPERATURE REACHES THE OCCUPIED SHALL REMAIN IN ITS LAST STATE AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE LOCAL HEATING SETPOINT. AND COMMUNICATED SETPOINTS FAIL THE CONTROLLER SHALL DISABLE THE SUPPLY FAN AND AN

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CONDENSATE OVERFLOW MONITORING: DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW DIAGNOSTIC MODULATE TO A POSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR SHALL ANNUNCIATE AT THE BAS. TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING TEMPERATURE DROPS BELOW 50.0 DEG. F (ADJ.). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AND CAUSING WATER DAMAGE TO THE BUILDING THE FAN SHALL BE DISABLED AND THE DX AN ALARM SHALL ANNUNCIATE AT THE BAS AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE COOLING SHALL BE DISABLED. MINIMUM POSITION.

FREEZE PROTECTION

THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THE VARIABLE SPEED DRIVE. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED (38.0 DEG. I THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE ADJ.), THE SUPPLY FAN SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL CLOSE, CHILLED DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT. WATER AND HOT WATER VALVES SHALL OPEN TO 100% (ADJUST PER CLIMATE) AND AN ALARM THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE SHALL BE ANNUNCIATED AT THE BAS. A MANUAL RESET OF THE LOW LIMIT TEMPERATURE SWITCH SHALL BE REQUIRED TO RESTART THE FAN.

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE BAS.

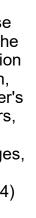
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DAYTIME WARM-UP CONTROL

DEMAND CONTROL VENTILATION:

SMOKE DETECTOR SHUTDOWN:

Project Title: Project Number RWP MNH HVAC UPGRADE REBID 2120 Drawing Scale Location: 1000 ELMWOOD AVE As indicated PROVIDENCE, RI 02907 **Drawing Number** Drawing Title: AHU CONTROLS M7.00 Drawn By: Checked By: Approved By: 09MAY22 AGE AG AG





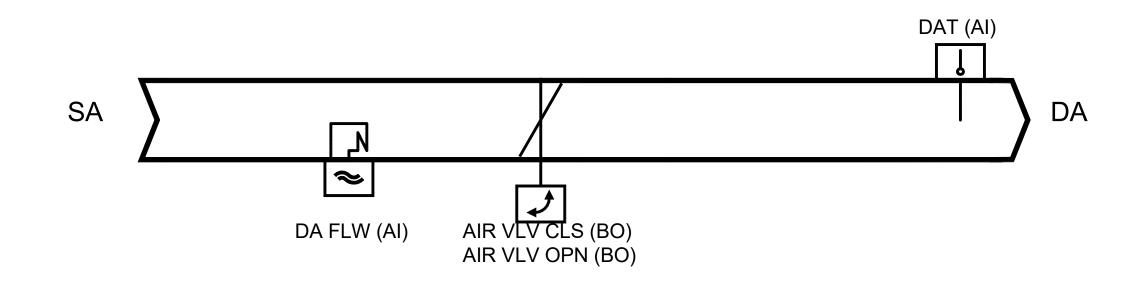
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System Point Descrip	tion			PC	DIN'	TS					Α	LA	RN	IS	
			ANALOG HAKUWAKE INPUT (AI) BINARY HARDWARE INPUT (BI)	ā	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	/ORK	HIGH ANALOG LIMIT	-OW ANALOG LIMIT	BINARY	ATCH DIAGNOSTIC	SENSOR FAIL	COMMINICATION FAIL
AIR VALVE DRIVE CLOSE CC		-		A	M X	Š	Ĭ	3	Z	I	Ľ	Ξ	1	ຽ	Č
AIR VLV CLS AIR VALVE DRIVE OPEN CON		×			Х										
AIR VLV OPN DISCHARGE AIR TEMPERATI	JRE X	X)	X							Х	Х			X	
DAT SPACE TEMPERATURE LOC	AL X	×						X							
SPT SPACE TEMPERATURE SETF LOCAL	POINT X	X						X							
SPT SP SUPPLY AIRFLOW	×	X)	×							Х	X				
	_					X									
BAS COMMUNICATION STAT BAS COM	E					Х									
MAXIMUM COOLING AIRFLO SETPOINT MAX CLG FLW SP	N					Х									
MINIMUM COOLING AIRFLOV SETPOINT	V					X									
MIN CLG FLW SP OCCUPIED BYPASS TIMER	×	X				Х									
OCC TMR OCCUPIED COOLING SETPO	INT X	X				X									
OCC CLG SP		X				X									

		MEP ENGINEER: Andre Gill Engineering, LLC
ADDENDUM 3		40 Overlea Road North Smithfield, RI 02896
ADDENDUM 2 ADDENDUM 1	26APR22	T: 401.441.3414 W: www.andregillengineering.com
Revision:	Date:	

CONSULTANTS

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SEQUENCE OF OPERATION: VAV TERMINAL UNIT

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED, AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

4

OCCUPIED:

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NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

UNOCCUPIED:

NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A HARDWIRED OR COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE FULLY CLOSED.

OCCUPIED BYPASS:

MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (ADJ.). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL OPERATE IN OCCUPIED MODE.

HEAT/COOL MODE:

THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT"" OR ""COLD"". HEATING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS COLD."

<u>HEAT/COOL SETPOINT:</u>

THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL (E.G., THUMBWHEEL) SETPOINT. THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

COOLING MODE:

WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY. WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS SHALL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

DEMAND CONTROL VENTILATION:

WHEN THE UNIT IS IN UNOCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT WILL BE ZERO. WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE EQUAL THE DESIGN OUTDOOR AIRFLOW AND RESET BASED ON CO2. CO2 SENSOR: WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT WILL BE CONTINUOUSLY CALCULATED USING THE MEASURED CO2 CONCENTRATION IN THE SPACE. THE CURRENT VENTILATION AIRFLOW SETPOINT SHALL BE COMMUNICATED TO THE BAS FOR CONTROL OF THE SYSTEM OUTDOOR-AIR INTAKE.

SPACE SENSOR FAILURE:

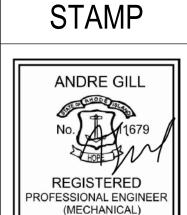
IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE.

3

ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

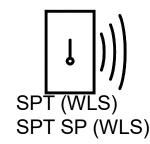
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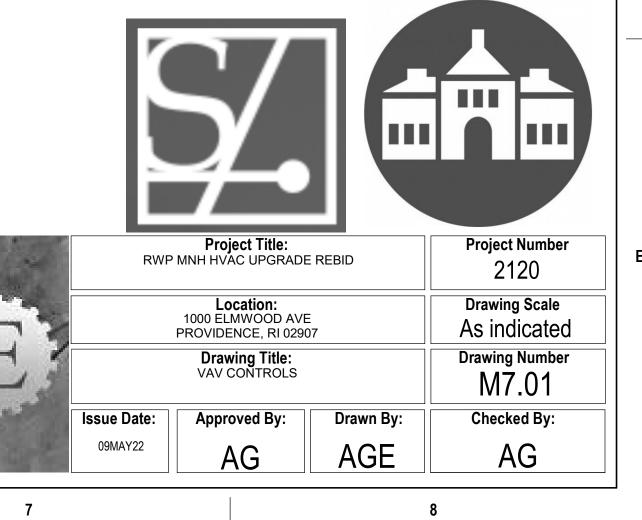
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SEQUENCE OF OPERATIONS

CABINET HEATERS

SINGLE TEMPERATURE ELECTRIC ROOM THERMOSTAT SET AT 68 DEGREES F (20 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE BY CYCLING UNIT FAN MOTOR.

2

SINGLE TEMPERATURE ROOM THERMOSTAT SET AT 68 DEGREES F (20 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE BY CYCLING UNIT FAN MOTOR AND ELECTRIC HEATING ELEMENTS INTEGRAL THERMOSTAT CONTINUES FAN OPERATION UNTIL ELEMENT TEMPERATURE FALLS BELOW 100 DEGREES F (38 DEGREES C). D

FAN COIL UNITS

- SINGLE TEMPERATURE UNIT MOUNTED THERMOSTAT SET AT 75 DEGREES F (24 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE DURING THE DAY AND 15 DEGREES F COOLER AT NIGHT (DURING THE DAY AND 8 DEGREES C COOLER AT NIGHT) BY MODULATING TWO-WAY CONTROL HEATING VALVE WITH SPRING RANGE OF 3 TO 7 PSIG (WITH SPRING RANGE OF 20 TO 48 KPA). SINGLE TEMPERATURE UNIT MOUNTED THERMOSTAT SET AT 75 DEGREES F (24 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE DURING THE DAY AND 15 DEGREES F COOLER AT NIGHT (DURING THE DAY AND 8 DEGREES C COOLER AT NIGHT) BY MODULATING TWO-WAY CONTROL HEATING VALVE WITH SPRING RANGE OF 3 TO 7 PSIG (WITH SPRING RANGE OF 20 TO 48 KPA) AND TWO-WAY COOLING CONTROL VALVE
- WITH SPRING RANGE OF 8 TO 13 PSIG (WITH SPRING RANGE OF 55 TO 90 KPA) IN SEQUENCE. SINGLE TEMPERATURE UNIT MOUNTED THERMOSTAT SET AT 75 DEGREES F (24 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE DURING THE DAY AND 15 DEGREES F COOLER AT NIGHT (DURING THE DAY AND 8 DEGREES C COOLER AT NIGHT) BY MODULATING FOUR-WAY CONTROL VALVE. DURING HEATING CYCLE, MODULATE HOT WATER SUPPLY TO COIL AND DIVERT RETURN MODULATE CHILLED WATER SUPPLY TO COIL AND DIVERT RETURN WATER TO COOLING RETURN PIPE. WHEN SPACE TEMPERATURE IS AT THERMOSTAT SETTING, PREVENT FLOW FROM OCCURRING IN EITHER CIRCUIT AND IN COIL. CHANGE OVER FROM HEATING TO COOLING BY INDEXING THERMOSTAT FROM THERMOSTAT ON SUPPLY PIPING. WHEN SUPPLY IS ABOVE ROOM TEMPERATURE, OPERATE THERMOSTAT IN DIRECT ACTING
- WHEN SPACE TEMPERATURE RISES ABOVE THERMOSTAT SETTING. FOR HEATING AND COOLING FAN COIL UNITS WITH FAN SPEED CONTROL DURING HEATING CYCLE, INCREASE FAN SPEED AS SPACE TEMPERATURE FALLS BELOW THERMOSTAT SETTING, PROVIDED HOT WATER IS AVAILABLE. DURING COOLING CYCLE, INCREASE FAN SPEED AS SPACE TEMPERATURE RISES ABOVE THERMOSTAT SETTING, PROVIDED CHILLED WATER IS AVAILABLE.
- MOUNT THERMOSTAT WITH ADJUSTABLE KNOB AND SPEED SWITCH ON COMMON PLATE ENGRAVED WITH "HEATING CONTROL AND FAN CONTROL" ON TOP, WITH "WARMER AND COOLER" AND DIRECTION INDICATOR AROUND THE THERMOSTAT KNOB. **HUMIDIFIERS**
- WHEN FAN IS RUNNING AND AIR FLOW SWITCH PROVES AIR FLOW, LINE VOLTAGE ROOM HUMIDISTAT RESET FROM OUTDOORS MAINTAINS HUMIDITY LEVEL OF 30 PERCENT BY CYCLING UNIT FAN TWO-WAY STEAM Α. VALVE.
- TO 50 PERCENT RELATIVE HUMIDITY AT 70 DEGREES F (2 DEGREES C) AND 15 PERCENT RELATIVE HUMIDITY AT MINUS 30 DEGREES F (MINUS 35 DEGREES C). **UNIT HEATERS**
- SINGLE TEMPERATURE ELECTRIC ROOM THERMOSTAT MAINTAINS CONSTANT SPACE TEMPERATURE OF 68 DEGREES F (20 DEGREES C) BY CYCLING UNIT FAN MOTOR. SINGLE TEMPERATURE THERMOSTAT ON RETURN HEATING WATER LINE FROM FLOOR MOUNTED CABINET HEATERS DE-ENERGIZES UNIT ON TEMPERATURES BELOW 95 DEGREES F (35 DEGREES C)
- SINGLE TEMPERATURE ROOM THERMOSTAT SET AT 68 DEGREES F (20 DEGREES C) MAINTAINS CONSTANT SPACE TEMPERATURE BY CYCLING UNIT FAN MOTOR AND ENERGIZING ELECTRIC HEATING ELEMENTS. INTEGRAL THERMOSTAT CONTINUES FAN OPERATION UNTIL ELEMENT TEMPERATURE FALLS BELOW 100 DEGREES F (38 DEGREES C). D. CENTRAL FAN SYSTEMS
- TIME SCHEDULE: START AND STOP SUPPLY AND RETURN FANS. DETERMINE FAN STATUS THROUGH AUXILIARY CONTACTORS IN MOTOR STARTER. IF FAN FAILS TO START AS COMMANDED, SIGNAL ALARM. SAFETY DEVICES:
- FREEZE PROTECTION: STOP FANS AND CLOSE OUTSIDE AIR DAMPERS IF TEMPERATURE BEFORE SUPPLY FAN IS BELOW 37 DEGREES F (3 DEGREES C); SIGNAL ALARM. HIGH TEMPERATURE PROTECTION: STOP FANS AND CLOSE OUTSIDE DAMPERS IF TEMPERATURE IN RETURN AIR IS ABOVE 300 DEGREES F (150 DEGREES C); SIGNAL ALARM. SMOKE DETECTOR: STOP FANS, CLOSE OUTSIDE DAMPERS, AND CLOSE SMOKE DAMPERS IF SMOKE IS DETECTED; SIGNAL ALARM. PREHEAT COIL
- WHEN FAN IS NOT RUNNING, AND OUTSIDE AIR TEMPERATURE IS BELOW 40 DEGREES F (5 DEGREES C), FULLY OPEN PREHEAT COIL VALVE TO HEATING. WHEN FAN IS RUNNING, MAINTAIN CONSTANT MIXED AIR TEMPERATURE OF 55 DEGREES F (12 DEGREES C) BY MODULATING PREHEAT COIL VALVE. OUTSIDE AIR DAMPER: WHEN SUPPLY FAN IS RUNNING, OPEN OUTSIDE AIR DAMPER TO MINIMUM POSITION. PREVENT SUPPLY FAN STARTING UNTIL OUTSIDE AIR DAMPER IS OPEN AND POSITION IS VERIFIED.
- HUMIDIFIER: WHEN SUPPLY FAN IS RUNNING, ALLOW HUMIDIFIER TO OPERATE.
- OUTDOOR RESET TO 50 PERCENT RELATIVE HUMIDITY AT 70 DEGREES F (21 DEGREES C) AND 15 PERCENT RELATIVE HUMIDITY AT MINUS 30 DEGREES F (MINUS 35 DEGREES C). OUTSIDE, RETURN, AND RELIEF DAMPERS: G.
- WHEN SUPPLY FAN IS NOT RUNNING, OUTSIDE AND RELIEF DAMPERS ARE CLOSED AND RETURN DAMPER IS OPEN
- WHEN SUPPLY FAN IS RUNNING, DAMPERS ARE CONTROLLED AND OPERATE WITH OUTSIDE AND RELIEF DAMPERS OPENING, AND RETURN DAMPER CLOSING
- FOR COOLING AND OUTSIDE AIR TEMPERATURES ABOVE 55 DEGREES F (12 DEGREES C) OUTSIDE AND RELIEF DAMPERS ARE OPEN AND RETURN DAMPER IS CLOSED.
- DAMPER TO MINIMUM, CLOSE RELIEF DAMPER, AND OPEN RETURN DAMPER.
- FOR OUTSIDE AIR TEMPERATURES ABOVE 79 DEGREES F (26 DEGREES C), DRIVE OUTSIDE DAMPER TO MINIMUM, CLOSE RELIEF DAMPER, AND OPEN RETURN DAMPER FOR HEATING, DRIVE OUTSIDE DAMPER TO MINIMUM, CLOSE RELIEF DAMPER, AND OPEN RETURN DAMPER.
- MODULATE MIXED AIR DAMPERS IN SEQUENCE TO MAINTAIN CONSTANT MIXED AIR TEMPERATURE. MULTIZONE SYSTEM:
- SPACE SENSOR SET AT 75 DEGREES F (24 DEGREES C), MODULATES ZONE DAMPERS AND MAINTAINS CONSTANT SPACE TEMPERATURE DURING THE DAY AND 15 DEGREES F COOLER AT NIGHT (DURING THE DAY AND 8 DEGREES C COOLER AT NIGHT)
- ROOM CALLING FOR GREATEST HEATING MODULATES REHEAT COIL VALVE. ROOM THERMOSTAT CALLING FOR GREATEST COOLING MODULATES COOLING COIL VALVE. MAINTAIN CONSTANT SUPPLY STATIC PRESSURE OF 1.5 INCHES WG (380 PA) BY MODULATING SUPPLY AND RETURN FAN INLET VANE DAMPERS IN SEQUENCE. LOCATE SENSOR MINIMUM 50 FT (15 M) DOWNSTREAM OF SUPPLY FAN IN SUPPLY AIR DUCT
- MAINTAIN CONSTANT SUPPLY STATIC PRESSURE OF 1.5 INCHES WG (380 PA) BY MODULATING SUPPLY FAN INLET VANE DAMPERS. MAINTAIN CONSTANT BUILDING PRESSURE OF 0.05 INCHES WG (12 PA) MEASURED AT GRADE BY MODULATING RETURN AIR FAN INLET VANE DAMPERS.
- DISPLAY:
 - SYSTEM GRAPHIC. SYSTEM ON/OFF INDICATION.
 - SYSTEM DAY/NIGHT MODE.
 - SYSTEM FAN ON/OFF INDICATION.
 - **RETURN FAN ON/OFF INDICATION**
 - PREHEAT COIL PUMP ON/OFF INDICATION.
 - SPRAY PUMP ON/OFF INDICATION.
 - OUTSIDE AIR TEMPERATURE INDICATION. MIXED AIR TEMPERATURE INDICATION.
 - FAN DISCHARGE AIR TEMPERATURE INDICATION.
 - REHEAT ZONE AIR TEMPERATURE INDICATION. 11
 - 12 **RETURN HUMIDITY INDICATION.**
 - FAN DISCHARGE TEMPERATURE CONTROL POINT ADJUSTMENT. 13. 14 RETURN HUMIDITY CONTROL POINT ADJUSTMENT.
 - 15 REHEAT ZONE CONTROL POINT ADJUSTMENT
 - 16 SUPPLY STATIC PRESSURE INDICATION.
 - 17 SUPPLY STATIC PRESSURE CONTROL POINT ADJUSTMENT.
 - 18 BUILDING STATIC PRESSURE INDICATION. 19 BUILDING STATIC PRESSURE CONTROL POINT ADJUSTMENT
 - 20. SYSTEM ON/OFF AUTO SWITCH.
 - 21. SYSTEM DAY/NIGHT/AUTO SWITCH.
 - 22. SUPPLY FAN ON/OFF SWITCH.
 - 23. **RETURN FAN ON/OFF/AUTO SWITCH** 24. PREHEAT COIL PUMP ON/OFF SWITCH.
 - SPRAY PUMP ON/OFF AUTO SWITCH. 25.

- PLACE ONE SENSOR PER ZONE
- PLACE SENSOR SO THAT A REPRESENTATIVE SAMPE OF CO2 CONCENTRATION IS OBTAINED E.G. IN IMMEDIATE VICINITY OF RETURN GRILLES AND APPROXIMATELY 4-6' AFF. ECONOMIZER CONTROL:
- CO2 SENSOR SHOULD PROVIDE CONTROL TO AHU OA DAMPER WHENEVER FRESH AIR EXONOMIZER CANNOT BE USED. IF OA IS SUITABLE FOR FREE COOLING, AND THERE IS A DEMAND FOR COOLING THE B ECONOMIZER SHALL HAVE PRIORITY.
- MINIMUM POSITION FOR CO2 CONTROL: 4

- CONTROL: Α.
- CONSULTANTS

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Andre Gill Engineering, LLC

40 Overlea Road North Smithfield, RI 02896

T: 401.441.3414 W: www.andregillengineering.com

ADDENDUM 3 10MAY22 ADDENDUM 2 26APR22 **ADDENDUM 1** 04APR22 **ISSUE FOR BID** 01MAR22 Revision: Date:

- а.
- CONCENTRATION

- SYSTEM SHALL BE CONFIGURED TO PROVIDE A BASE VENTILATION RATE TO SPACE TO CONTROL NON-OCCUPANT RELATED SOURCES IN THE SPACE 20-30% OF DESIGN VENTILATION RATE. MAXIMUM POSITION FOR CO2 CONTROL:
- PURGES.

3

SINGLE TEMPERATURE THERMOSTAT ON RETURN HEATING WATER LINE FROM FLOOR MOUNTED CABINET HEATERS DE-ENERGIZES UNIT ON TEMPERATURES BELOW 95 DEGREES F (35 DEGREES C)

4

MANNER. OPENING VALVE WHEN TEMPERATURE FALLS BELOW THERMOSTAT SETTING. WHEN SUPPLY IS BELOW ROOM TEMPERATURE. OPERATE THERMOSTAT IN REVERSE ACTING MANNER. OPENING VALVE

WHEN SUPPLY FAN IS RUNNING AIR FLOW SWITCH PROVES AIR FLOW, HUMIDISTAT LOCATED IN RETURN AIR, RESET FROM OUTDOORS MODULATES NORMALLY CLOSED HUMIDIFIER VALVE. SET OUTDOOR RESET

HUMIDIFIER: WHEN SUPPLY FAN IS RUNNING AND THERE IS WATER IN HUMIDIFIER SUMP, HUMIDISTAT LOCATED IN RETURN AIR, RESET FROM OUTDOORS MODULATES NORMALLY CLOSED HUMIDIFIER VALVE. SET

3

FOR COOLING AND OUTSIDE AIR TEMPERATURES BELOW 55 DEGREES F (12 DEGREES C), MODULATE DAMPERS TO MAINTAIN MIXED AIR TEMPERATURE OF 55 DEGREES F (12 DEGREES C) OR HIGHER. FOR COOLING AND OUTSIDE AIR TEMPERATURES ABOVE 55 DEGREES F (12 DEGREES C) COMPARE RETURN AND OUTSIDE AIR TEMPERATURES. IF RETURN AIR TEMPERATURE IS LOWER, DRIVE OUTSIDE

OPERATIONAL REQUIREMENTS OF CO2 DCV

MAXIMUM POSITION OF DAMPER DURING CO2 CONTROL SHOULD BE SET TO EQUAL THE DVR FOR SPACE, WITH ABILITY TO OPEN TO OVER VENTILATIE DURING USER DEFINED

OA DAMPER WILL MODULATED BETWEEN THE MINIMUM POSITION DESCRIBED ABOVE AND THE MAXIMUM POSITION DESCRIBED ABOVE NECESSARY TO PROVIDE THE DVR TO THE SPACE BASED ON CO2 CONCENTRATIONS.

UPPER CONTROL LIMIT SHOULD BE ~800 PPM ABOVE NOMINAL OUTSIDE AIR

LOWER CONTROL LIMIT ~200 PPM ABOVE NOMINAL OUTSIDE AIR CONCENTRATION.

OPERATIONAL REQUIREMENTS OF VAV BOXES

Coo

- PRESSURE DEPENDENT ON POWER UP THE DAMPER WILL CALIBRATE CLOSED FOR 2 Α. MINUTES.
- COOL SUPPLY AIR: B ON AN INCREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE а.

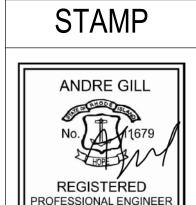
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- ACTUATOR TO OPEN THE AIR DAMPER AND INCREASE THE FLOW OF COOL AIR. ON AN INCREASE OF SPACE TEMPERATURE GREATER THAN THE COOLING PROPORTIONAL BAND, THE DAMPER POSITION(%) IS MAINTAINED AT ITS PRE-SELECTED MAXIMUM SETTING.
- ON A DECREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE C.
- ACTUATOR TO CLOSE THE AIR DAMPER AND REDUCE THE FLOW OF COOL AIR. IF THE SPACE TEMPERATURE DECREASES TO LESS THAN THE COOLING PROPORTIONAL BAND, THE DAMPER POSITION (%) IS MAINTAINED AT THE PRE-SELECTED MINIMUM SETTING.
- WARM SUPPLY AIR:
 - ON A DECREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE а ACTUATOR TO OPEN THE AIR DAMPER AND INCREASE THE FLOW OF WARM AIR. ON A DECREASE OF SPACE TEMPERATURE GREATER THAN THE HEATING PROPORTIONAL BAND, THE DAMPER POSITION(%) IS MAINTAINED AT ITS PRE-SELECTED
 - MAXIMUM SETTING. ON AN INCREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE С ACTUATOR TO CLOSE THE AIR DAMPER AND REDUCE THE FLOW OF WARM AIR.
 - IF THE SPACE TEMPERATURE INCREASES ABOVE THE HEATING PROPORTIONAL BAND THE DAMPER POSITION (%) IS MAINTAINED AT THE PRE-SELECTED MINIMUM SETTING.

ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

T: 401.942.7970 W: www.sa-architects.com



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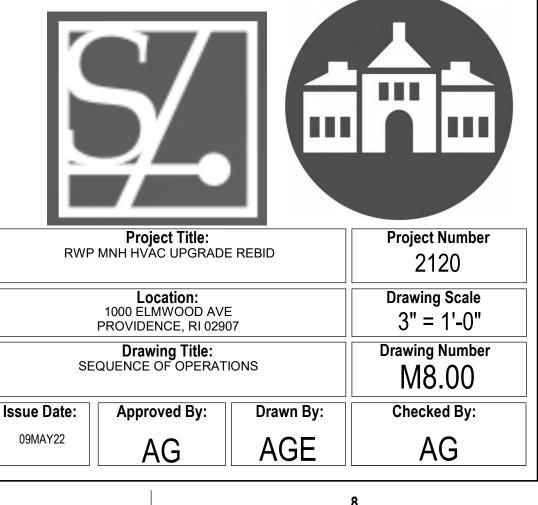
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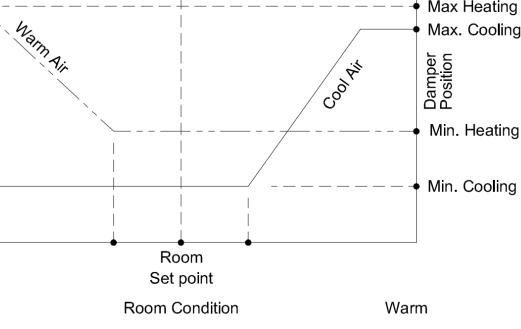
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CONTROL GRAPH

FIELD ELECTRICAL WIRING

FACTORY ELECTRICAL WIRING

D

	1		2		
		SYMBOLS			
9 PANEL A	© DIMMER LIGHT SWI SK KEYED SWITCH. SVS WALL MOUNTED V UON. f PANEL - # LIGHT FIXTURE. UF PANEL - # LETTER INDICATES B WALL MOUNTED, T © CEILING MOUNTED BATTERY BACK UP WHEN PRESENT	ACANCY SENSOR WI PPER CASE LETTER LIGHTING ZONE, P/ WO HEADED EMERG LED EXIT SIGN WIT , SHADED SIDE IND	ETTER INDICATES ZONE WHE TH MANUAL ON BUTTON. MO INDICATES FIXTURE TYPE, LO ANEL # INDICATES SOURCE (ENCY LED WALL PACK TH GREEN LETTERING AND NI DICATE LIT SIDE, ARROW INDI	OWER CASE CIRUIT	
	EXIT SIGN.	(INFRARED AND U	E ATTRIBUTES AS ABOVE CEI		3
-					
	DISCONNECT AND CIRCUIT BREAKER	SA	FETY SWITCHES		
	I.C. (1000 AMPS) 10 * "NA" INDIC * "NF" INDIC * "50" INDIC * "**" INDIC	O RATING (AM	(AMPS) + IPERES) 100 S (UL) RK5 TIC C/B SWITCH E SIZE ER		
				CONSUL	T <i>F</i>
			MEP ENGINEER: Andre Gill Engineering, LLC		
ADDENDUM 2 ADDENDUM 1		26APR22 04APR22	40 Overlea Road North Smithfield, RI 02896		

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Revision:

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T: 401.441.3414

W: www.andregillengineering.com

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Date:

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	SYMBOLS		GENERAL NOTES:
	GENERAL SYMBOLS:	1.	THE FOLLOWING GENERAL NOTES APPLY TO ELECTRICAL DRAWINGS.
17/ 7 X,	DASHED SYMBOL WITH HATCHING INDICATES DEVICE OR EQUIPMENT EXISTING TO DEMOLISHED.	2.	INSTALLATION OF ELECTRICAL MATERIAL SHALL CONFORM WITH LOCAL NATIONAL ELECTRICAL CODE (NEC), RHODE ISLAND BUILDING CODE, /
⊑⊐ \$\$\$	LIGHT SOLID SYMBOL INDICATES DEVICE OR EQUIPMENT EXISTING TO REMAIN. DARKER SOLID SYMBOL INDICATES DEVICE, OR EQUIPMENT TO BE PROVIDED; ON		AND ORDINANCES.
□ \$\$	DEMO DRAWINGS, DARKER SYMBOL INDICATES EQUIPMENT TO BE DEMOLISHED.	3.	ELECTRICAL EQUIPMENT SHALL BE NRTL LABELED.
₽₽\$ ∠ef	INDICATES SURFACE MOUNTED BOX FOR ITEM SHOWN. MECHANICAL SCHEDULE REFERENCE.	4.	THE CONTRACTOR SHALL VISIT THE SITE INCLUDING AREAS INDICATED CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EX SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH THE CONTRAC PERFORM THE WORK.
$\left(\begin{array}{c} 2 \end{array} \right)$	NOTE REFERENCE	5.	THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES
3/E39 +48"	DETAIL OR SECTION REFERENCES IN NOTES. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.		ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE S SPECIFICATIONS. THE CONTRACTOR SHALL CHECK THE DRAWINGS OF CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE RESPO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN O DRAWINGS AND SPECIFICATIONS.
	RACEWAY SYSTEMS	6.	THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES COMPLETION OF ELECTRICAL WORK, INCLUDING CHARGES BY THE LOO
	CONDUIT CONDUIT TURNING DOWN.	7.	THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES CONDUIT OTHER THAN AS SHOWN ON THE PLANS SHALL BE INCURRE
A-1,3 -	HOMERUN TO PANELBOARD "A" – CIRCUITS 1 & 3. CROSS MARKS, IF SHOWN, INDICATE NUMBER OF WIRES. FEEDER OR CIRCUIT NUMBERS AS NOTED. IF NO WIRE SIZE IS CALLED OUT WITH SYMBOL, EACH WIRES ARE #12AWG. FOR EXAMPLE: 2 #12 & #12G, 3/4" C	8.	WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE BREAKERS, TRANSFORMERS, GROUND FAULT PROTECTION SYSTEM, ET DRAWINGS AND/OR SPECIFICATIONS), THE CONTRACTOR SHALL BE RE INSTALLING MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CO AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERAE
	3 #12 & #12G, 3/4" C.		THE OWNER OR ENGINEER.
		9.	CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS WITH THHN/TH OTHERWISE NOTED. CONDUCTORS SHALL BE COPPER. CONDUCTOR THHN/THWN-2 UNLESS OTHERWISE NOTED. MINIMUM POWER CONDUC
	MISCELLANEOUS	10.	MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED.
0 0-	JUNCTION OR OUTLET BOX. CEILING OR WALL MOUNTED AS INDICATED. LOCATE ABOVE ACCESSIBLE CEILINGS UON.	1522	INSTALL EQUIPMENT, DEVICES, CONDUIT AND CONDUIT SUPPORTS TO REQUIREMENTS.
FLUSH	SPECIAL PANEL OR CABINET, AS NOTED. PANELBOARD.	12.	CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. INSTALL CONDUITS TO S
T	TRANSFORMER, FLOOR MOUNTING TYPE. (PLAN VIEW)	13.	PROVIDE PROPERLY SIZED LUGS AT CIRCUIT BREAKER PANELS, FOR
CB	ENCLOSED CIRCUIT BREAKER.		CONNECT TO THESE LUGS.
Dr Er	FUSED SAFETY DISCONNECT SWITCH	14.	INSTALL EXTERIOR MOUNTED ELECTRICAL EQUIPMENT IN WEATHERPRO
\$ _M	MOTOR STARTER SWITCH.	15.	SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR, SIZED PE BE PROVIDED, INSTALLED IN THE SAME CONDUIT AS THE CIRCUIT CO BRANCH CIRCUITS.
	SINGLE LINE DIAGRAM:	16.	THE CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION REQUIRING ELECTRICAL, INCLUDING FRACTIONAL HORSEPOWER MOTORS RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL A DUCTS, LINES AND EQUIPMENT.
Ţ	GROUNDING ELECTRODE	17	EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND/OR
G	GROUND BUS OR TERMINALS	17.	OR FLOORS SHALL BE AS DIRECTED BY A STRUCTURAL ENGINEER.
	SPLICE	18.	COMPLY WITH NFPA 70E.
	TERMINAL	19.	INTERRUPTION OF EXISTING ELECTRIC SERVICE: DO NOT INTERRUPT E OCCUPIED BY OWNER OR OTHER UNLESS PERMITTED UNDER TO FOL
⊸∽□⊷	FUSED SWITCH		ONLY AFTER ARRANGING TO PROVIDE TEMPORARY ELECTRIC SERVICE INDICATED:
م⊟⊷	CARTRIDGE FUSE		A. NOTIFY OWNER NO FEWER THAN THIRTY DAYS IN ADVANCE OF F ELECTRIC SERVICE.
42,000	SHORT CIRCUIT CURRENT, AMPS		B. NOTIFY OWNER, IN WRITING, FOURTEEN DAYS IN ADVANCE OF TH SCHEDULE FOR PERFORMING WORK HAS CHANGED OR IF REVISI REQUIRED.
L min	TRANSFORMER		C. INDICATE METHOD OF PROVIDING TEMPORARY ELECTRIC SERVICE RESTORED WITHIN DESIRED TIME.
	GROUND ROD	20.	THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE
	LOW VOLTAGE CIRCUIT BREAKER - ENCLOSED.		AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN
3	MOTOR, "3" INDICATES HORSEPOWER.		DEFINITE INSTRUCTIONS IN EACH CASE. UPON COMPLETION O REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FRO CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHA
(M3	METER.		THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTAND MANNER.

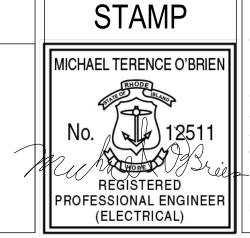
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ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

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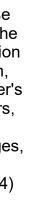
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L NOTES:

LL CONFORM WITH LOCAL REGULATIONS AND THE 2020 ISLAND BUILDING CODE, AND OTHER GOVERNING CODES

7

- CLUDING AREAS INDICATED ON THE DRAWINGS. THE ZE HIMSELF WITH THE EXISTING CONDITIONS AND BY DER WHICH THE CONTRACTOR SHALL BE REQUIRED TO
- WORK WITH OTHER TRADES AT THE SITE. IT SHALL BE THE TO OBTAIN A COMPLETE SET OF DRAWINGS AND HECK THE DRAWINGS OF THE OTHER TRADES AND SHALL IS AND DETERMINE RESPONSIBILITIES. FAILURE TO DO SO IM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE
- FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND ING CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
- WORK WITH OTHER TRADES AT THE SITE, COSTS TO ROUTE PLANS SHALL BE INCURRED BY THE CONTRACTOR.
- R SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT PROTECTION SYSTEM, ETC. (MATERIALS, ARISES ON THE ONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND ED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY
- NDUCTORS WITH THHN/THWN-2 INSULATION UNLESS COPPER. CONDUCTOR INSULATION SHALL BE MINIMUM POWER CONDUCTOR SIZE IS #12 AWG.
- NLESS OTHERWISE NOTED.
- CONDUIT SUPPORTS TO MEET SEISMIC CATEGORY "D"
- INSTALL CONDUITS TO SUIT FIELD CONDITIONS.
- BREAKER PANELS, FOR THE CONDUCTORS SHOWN TO
- UIPMENT IN WEATHERPROOF, NEMA 3R ENCLOSURES.
- IG CONDUCTOR, SIZED PER NEC TABLE 250.122, SHALL DUIT AS THE CIRCUIT CONDUCTORS, FOR FEEDER AND
- AND MAKE CONNECTION TO MOTORS AND EQUIPMENT VAL HORSEPOWER MOTORS. IT SHALL BE THE EVIEW THE MECHANICAL AND PLUMBING DRAWINGS FOR
- PENETRATIONS AND/OR OPENINGS IN CONCRETE WALLS STRUCTURAL ENGINEER.
- CE: DO NOT INTERRUPT ELECTRIC SERVICE TO FACILITIES ERMITTED UNDER TO FOLLOWING CONDITIONS AND THEN DRARY ELECTRIC SERVICE ACCORDING TO REQUIREMENTS
- DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF
- DAYS IN ADVANCE OF THE REQUIRED OUTAGE IF THE S CHANGED OR IF REVISIONS TO THE OUTAGE PLAN ARE
- ORARY ELECTRIC SERVICE IF SERVICE CAN NOT BE
- KEEP UP-TO-DATE A COMPLETE RECORD SET OF CORRECTED DAILY AND SHOW EVERY CHANGE FROM DRAWINGS SHALL BE KEPT ON THE JOB SITE ORD SET. THIS SHALL NOT BE CONSTRUED AS TO MAKE CHANGES IN THE LAYOUT WITHOUT UPON COMPLETION OF THE WORK, A SET OF HALL BE OBTAINED FROM THE OWNER, AND SET OF DRAWINGS SHALL BE INCORPORATED LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL



6



A OD	AMP -	
100 C	AMP -	AMPERE
AF	-	AMP FUSE
AF		AMP FRAME
A.F.F.	-	ABOVE FINISHED FLOOR
AIC	_	AMPS INTERRUPTING CAPACITY
AS	-	AMP SWITCH
AT	-	AMP TRIP
BCG	-	BARE COPPER GROUND
С	÷.	CONDUIT
CONT	7	CONTINUED
DIA	7	DIAMETER
DISC	-	POWER DISCONNECT
DIST	12	Dionibonon
EQUIP	-	EQUIPMENT
EG	-	ELECTRICAL GROUND
EXIST,	(E) -	EXISTING
FF		FINISHED FLOOR
FT	-	FOOT, FEET
G	-	GROUND
GFI	-	GROUND FAULT INTERRUPTER
GND	-	GROUND
HP		HORSE POWER
KAIC		THOUSAND AMPERE INTERRUPT CURRENT
19922		: 2017년 1월 2
KCMIL		THOUSAND CIRCULAR MILS
KVA	·	KILA-VOLT-AMP (POWER)
KW		KILOWATT(S)
NEC	0.77	NATIONAL ELECTRICAL CODE
NTS	1.75	NOT TO SCALE
PH, Ø		PHASE
PNL	-	ELECTRICAL POWER DISTRIBUTION PANEL
RMC	12	RIGID METAL CONDUIT
REF	-	REFERENCE
REQD	-	REQUIRED
RM	-	ROOM
SEC		SECONDARY
SWBD	-	SWITCHBOARD
TRANSF		TRANSFORMER
TVSS	· · · · · · · · · · · · · · · · · · ·	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	12	TYPICAL
XFMR		TRANSFORMER
3W		THREE WIRE
3PH	-	THREE PHASE
V		VOLT
WP		WEATHERPROOF
	1970	

8

Α

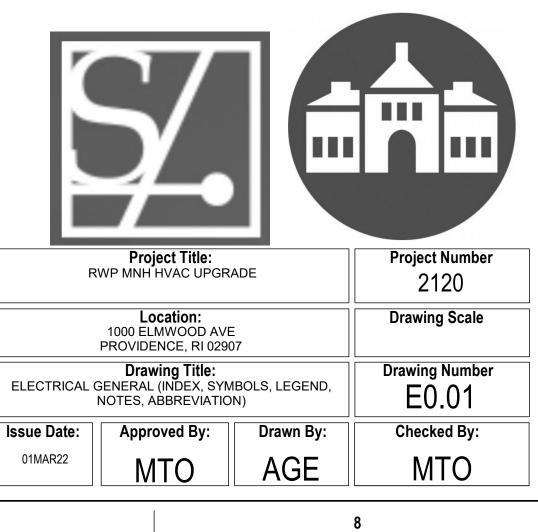
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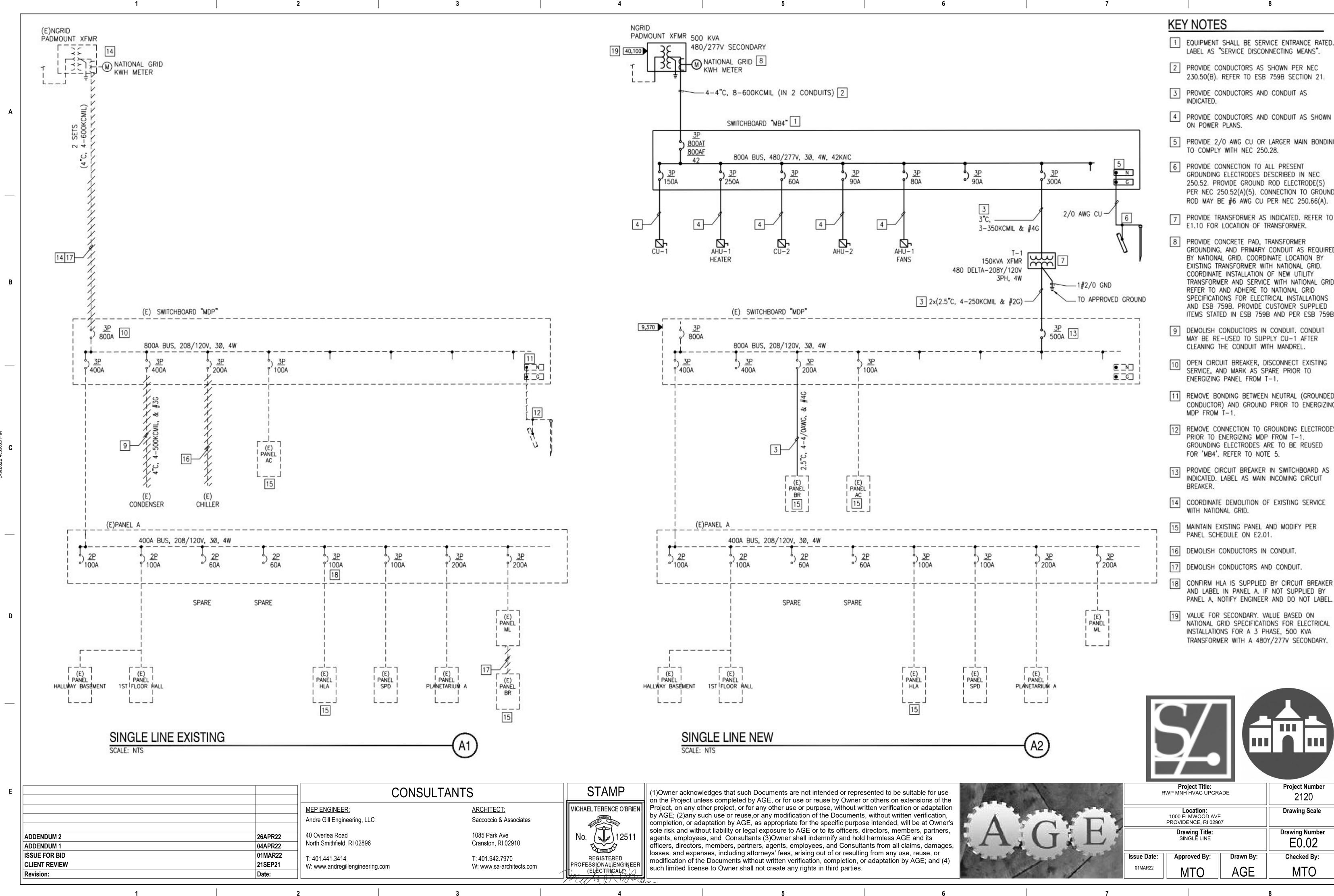
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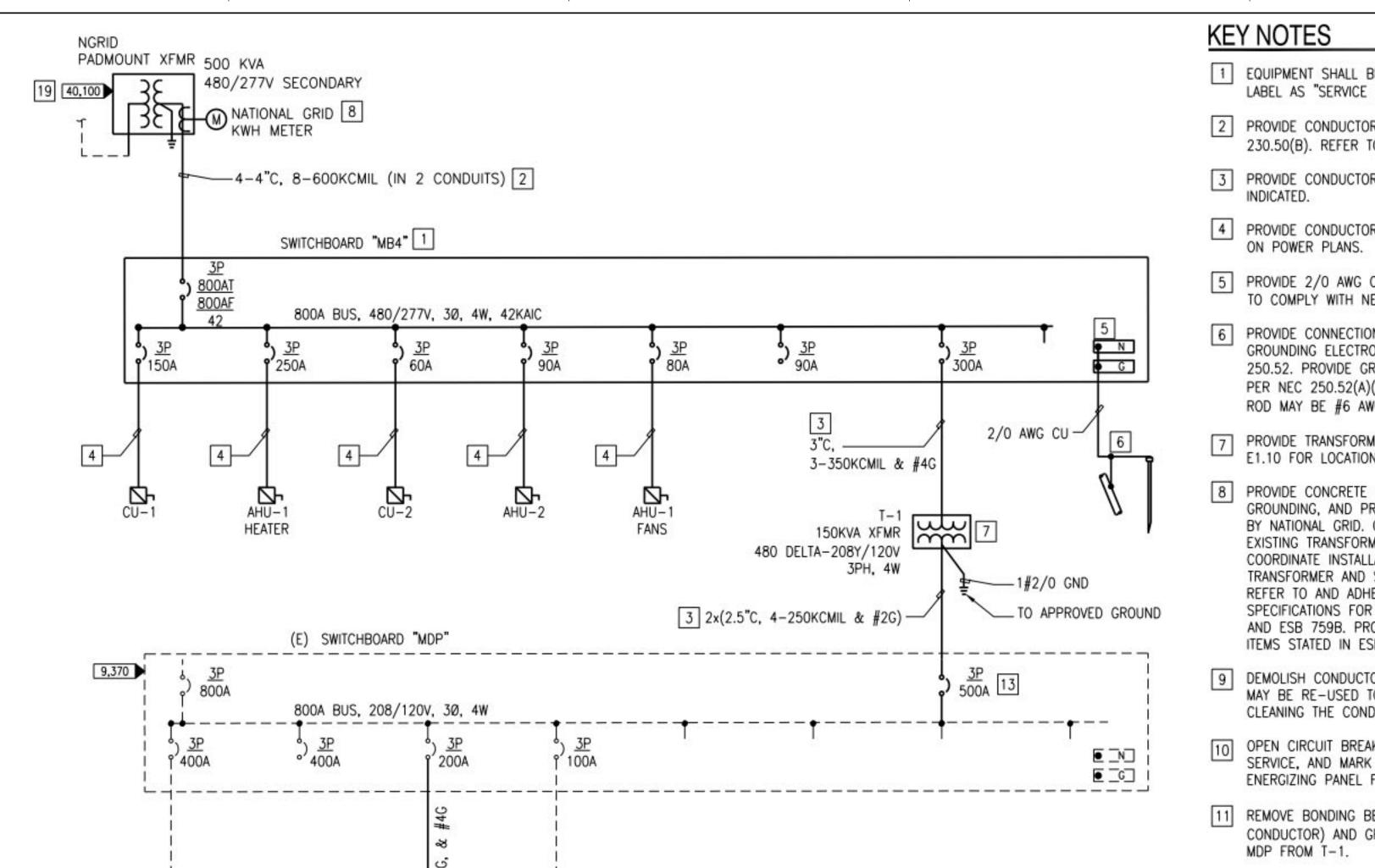
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ABBREVIATIONS:

ELECTRICAL SHEET LIST					
SHEET NUMBER	SHEET NAME	REVISION			
E0.01	ELECTRICAL GENERAL (INDEX, SYMBOLS, LEGEND, NOTES, ABBREVIATION)				
E0.02	SINGLE LINE				
E1.00	(D) ELETRICAL PLANS (BASEMENT)				
E1.01	(D) ELETRICAL PLANS (FIRST FLOOR)				
E1.02	(D) ELETRICAL PLANS (SECOND FLOOR)				
E1.03	(D) ELETRICAL PLANS (THIRD FLOOR)				
E1.04	(D) ELETRICAL PLANS (ROOF)				
E1.10	(N) ELETRICAL PLANS (BASEMENT)				
E1.11	(N) ELETRICAL PLANS (FIRST FLOOR)				
E1.12	(N) ELETRICAL PLANS (SECOND FLOOR)				
E1.13	(N) ELETRICAL PLANS (THIRD FLOOR)				
E2.01	PANEL SCHEDULES				
E2.02	PANEL SCHEDULES				







1

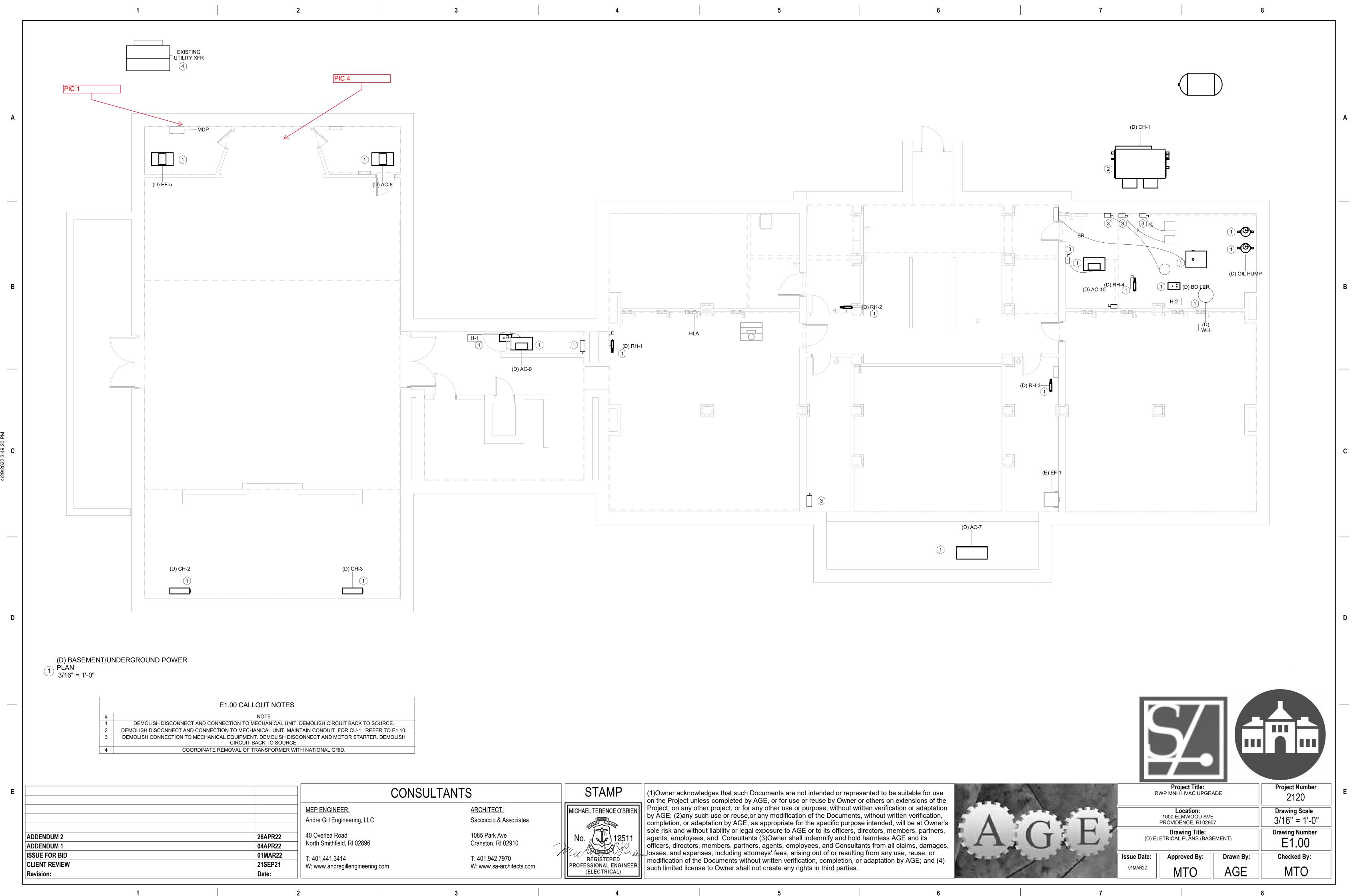
- 5 PROVIDE 2/0 AWG CU OR LARGER MAIN BONDING
- PER NEC 250.52(A)(5). CONNECTION TO GROUND ROD MAY BE #6 AWG CU PER NEC 250.66(A).
- 7 PROVIDE TRANSFORMER AS INDICATED. REFER TO
- GROUNDING, AND PRIMARY CONDUIT AS REQUIRED TRANSFORMER AND SERVICE WITH NATIONAL GRID. SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS AND ESB 759B. PROVIDE CUSTOMER SUPPLIED ITEMS STATED IN ESB 759B AND PER ESB 759B

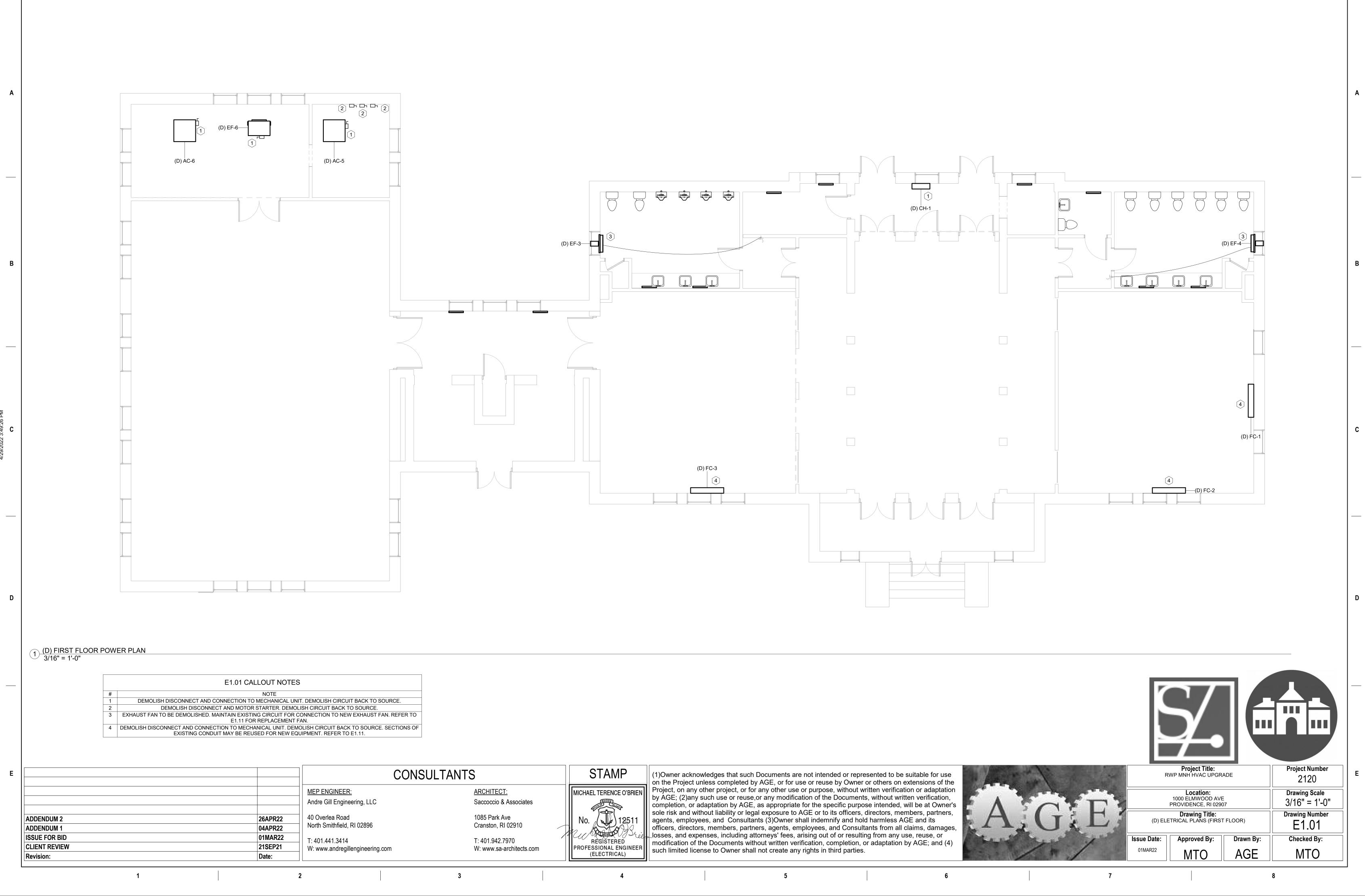
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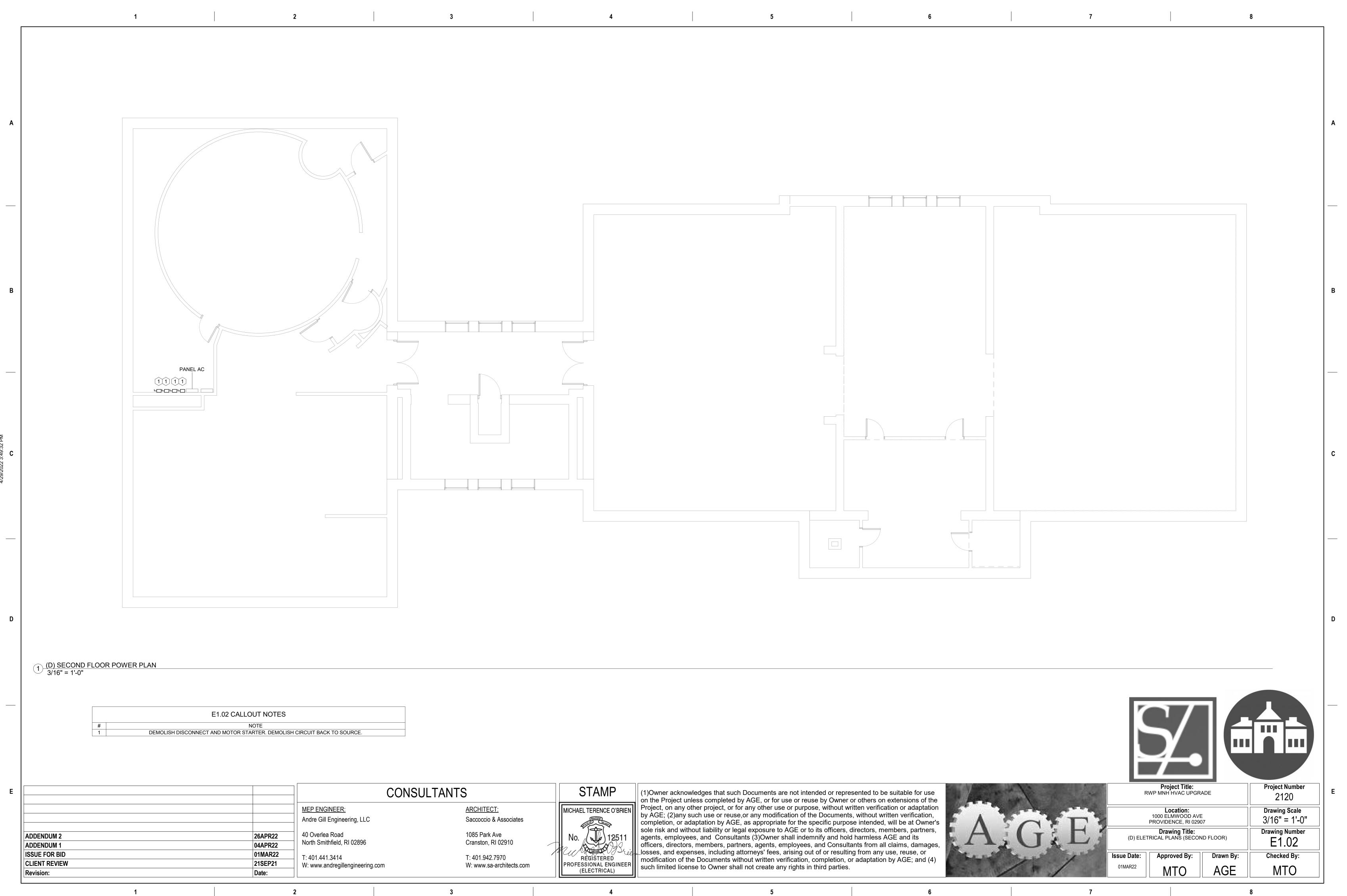
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- 11 REMOVE BONDING BETWEEN NEUTRAL (GROUNDED CONDUCTOR) AND GROUND PRIOR TO ENERGIZING
- 12 REMOVE CONNECTION TO GROUNDING ELECTRODES
- PROVIDE CIRCUIT BREAKER IN SWITCHBOARD AS

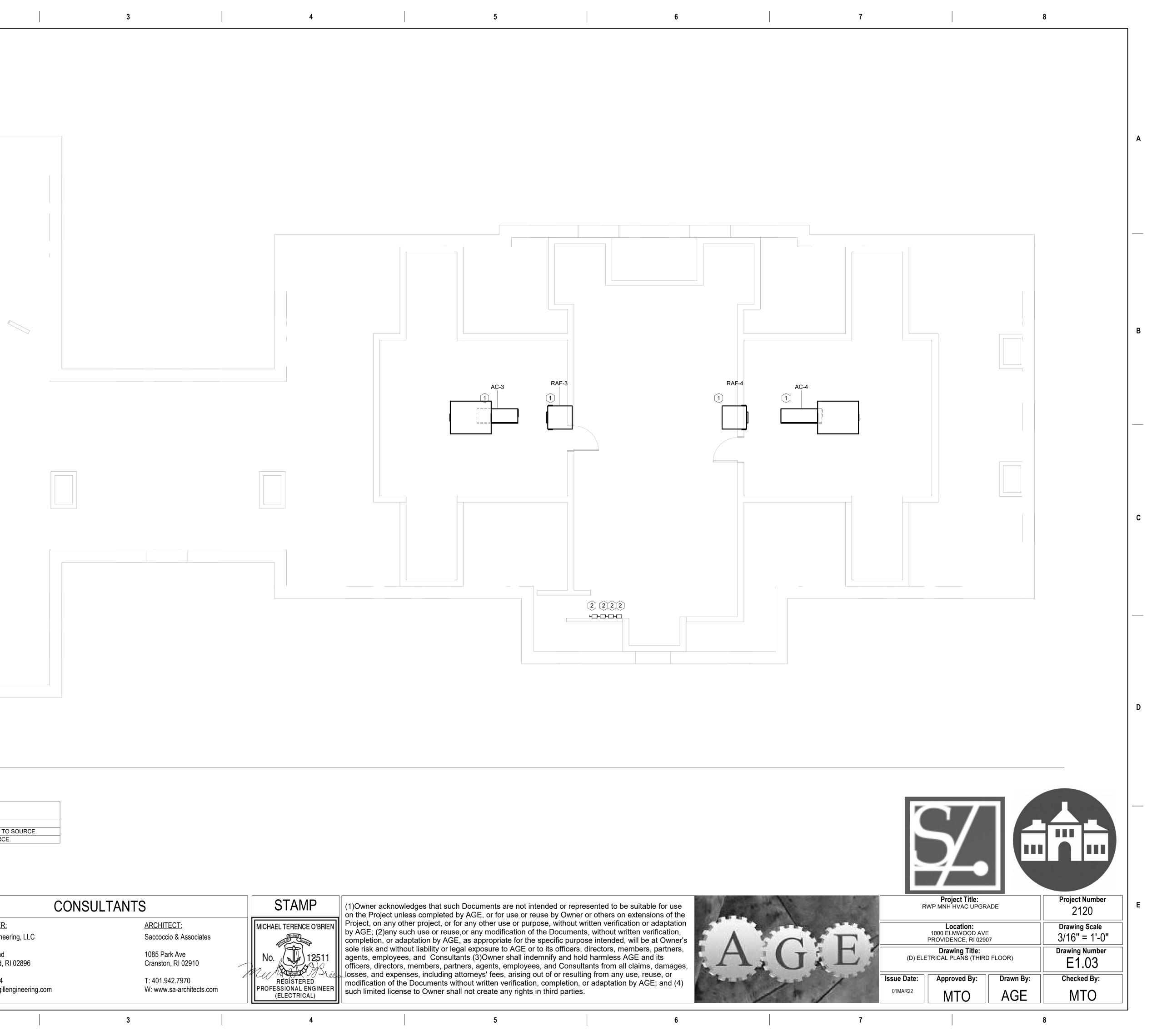
- 18 CONFIRM HLA IS SUPPLIED BY CIRCUIT BREAKER PANEL A, NOTIFY ENGINEER AND DO NOT LABEL.
- NATIONAL GRID SPECIFICATIONS FOR ELECTRICAL

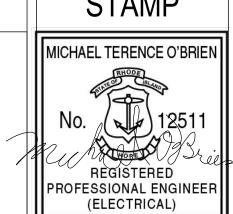


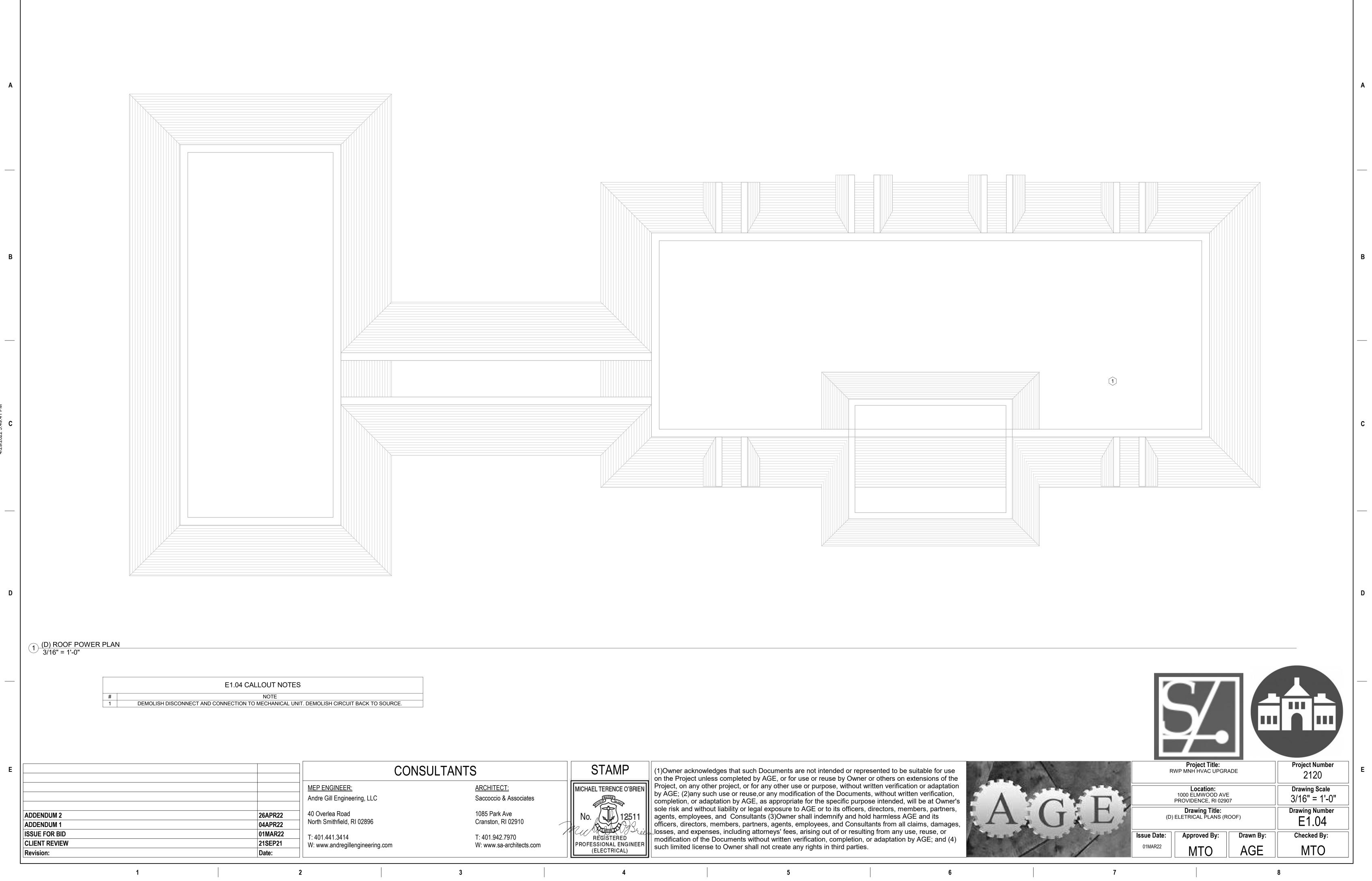




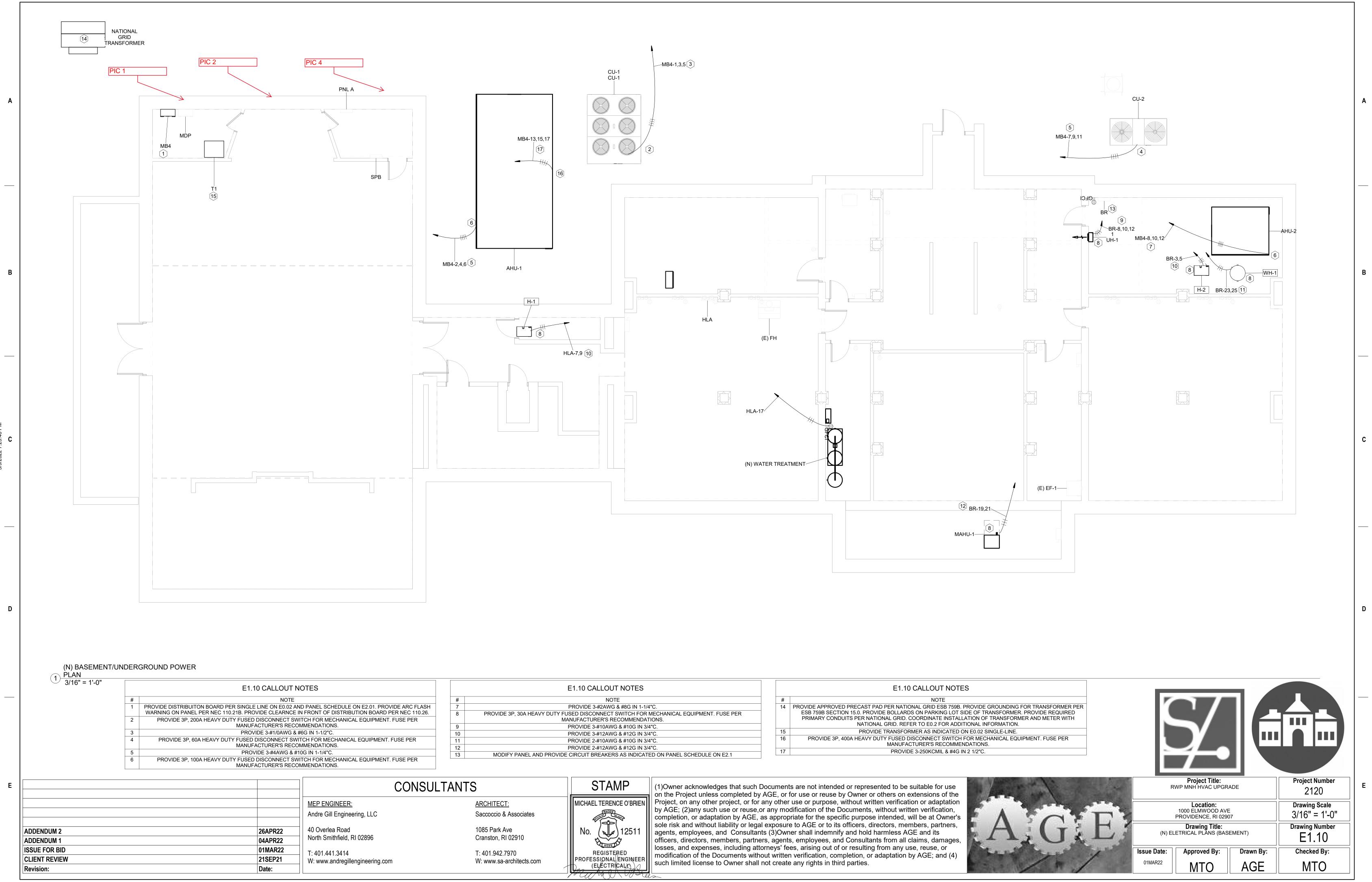
Α					
В					
			AC-1	RAF-1	
С			AC-2	RAF-2	
D					
	1 (D) 3RD FLOOR POWER 3/16" = 1'-0"				
	#		LLOUT NOTES		
	1 DI 2	EMOLISH DISCONNECT AND CONNECTION TO DEMOLISH DISCONNECT AND MOTOF			
E					CONSULTAN
				MEP ENGINEER: Andre Gill Engineering, LLC	
	ADDENDUM 2 ADDENDUM 1 ISSUE FOR BID CLIENT REVIEW		26APR22 04APR22 01MAR22 21SEP21	40 Overlea Road North Smithfield, RI 02896 T: 401.441.3414	~
	Revision:		Date:	W: www.andregillengineering.cor	



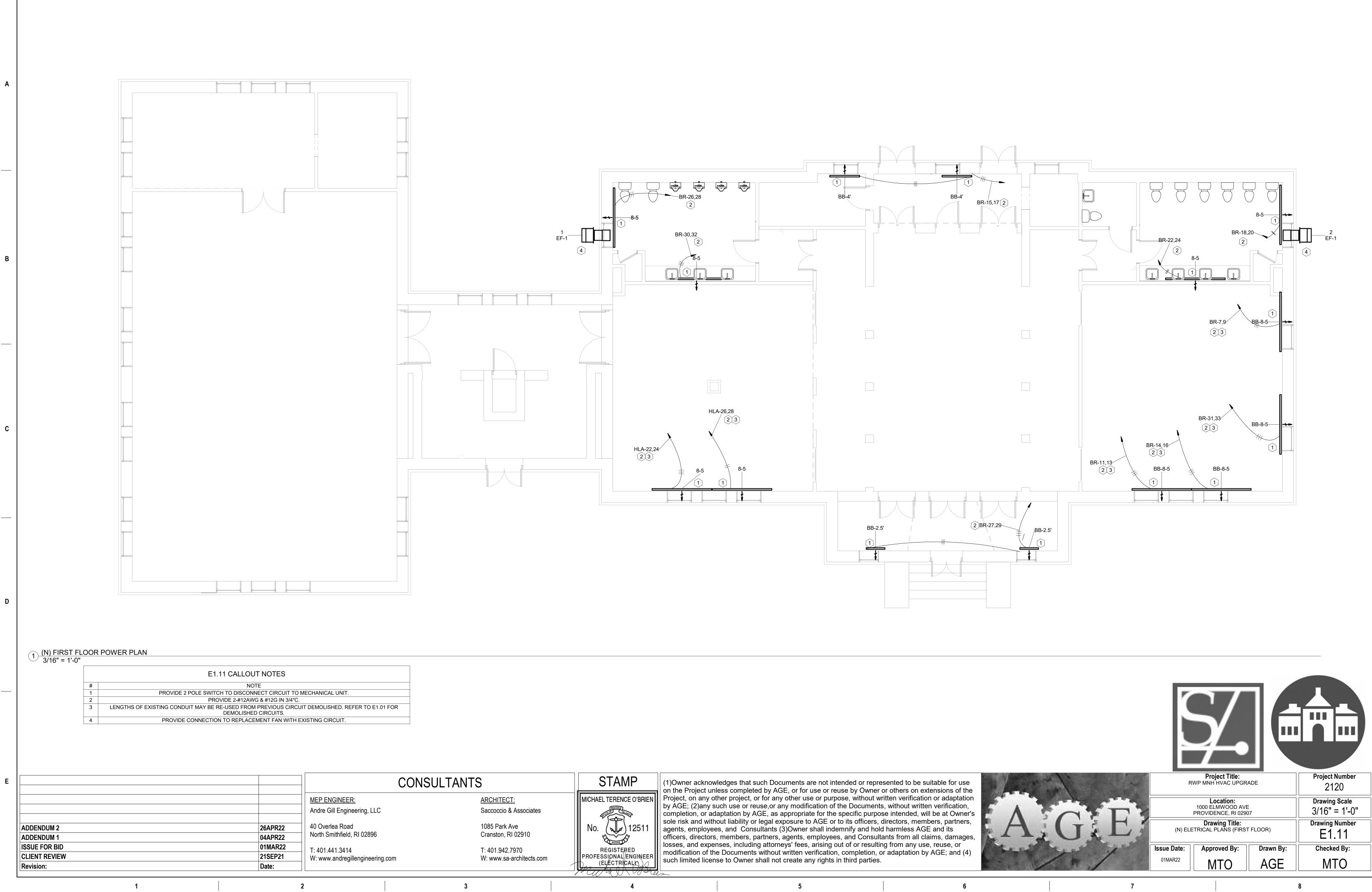


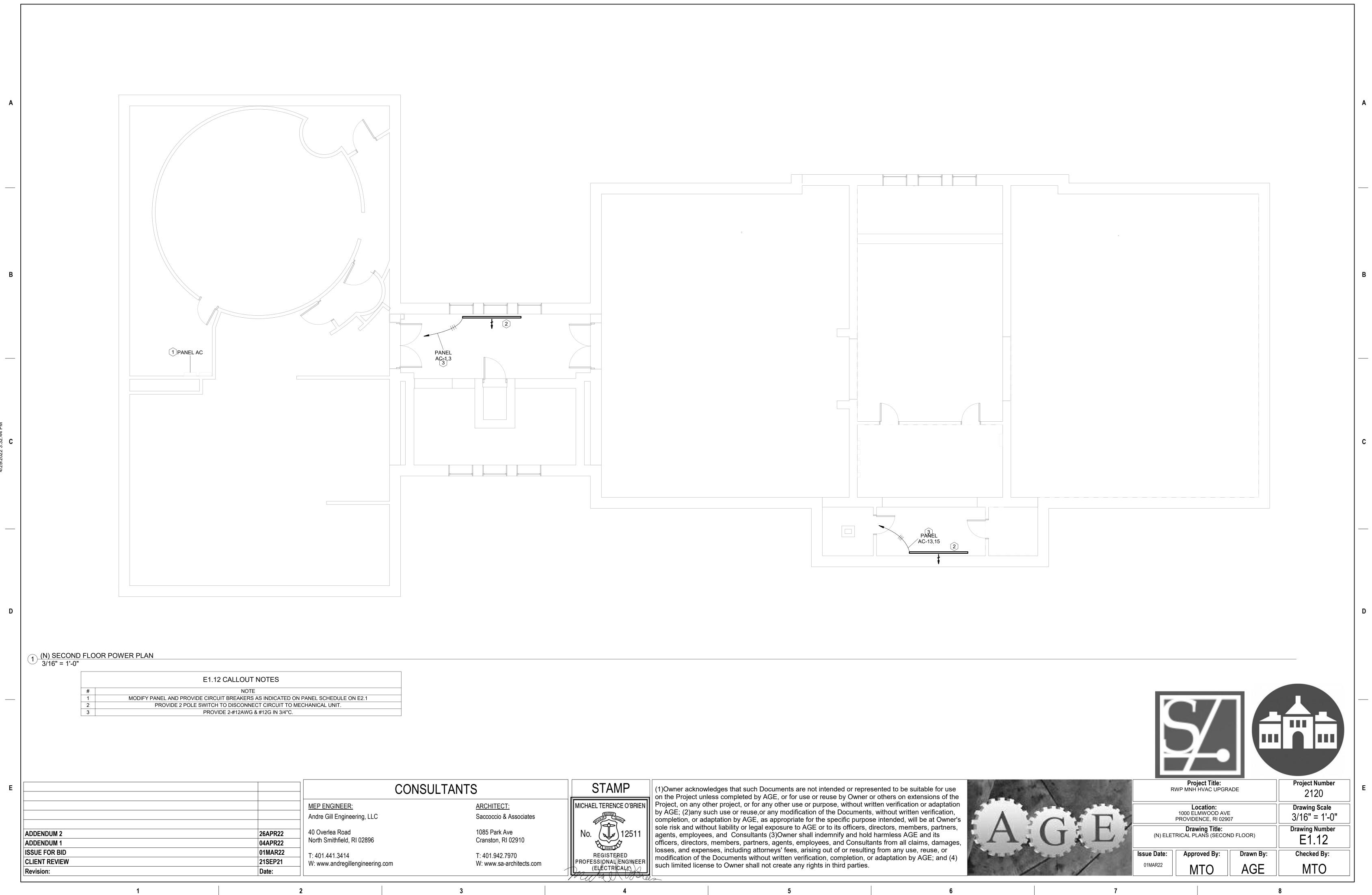


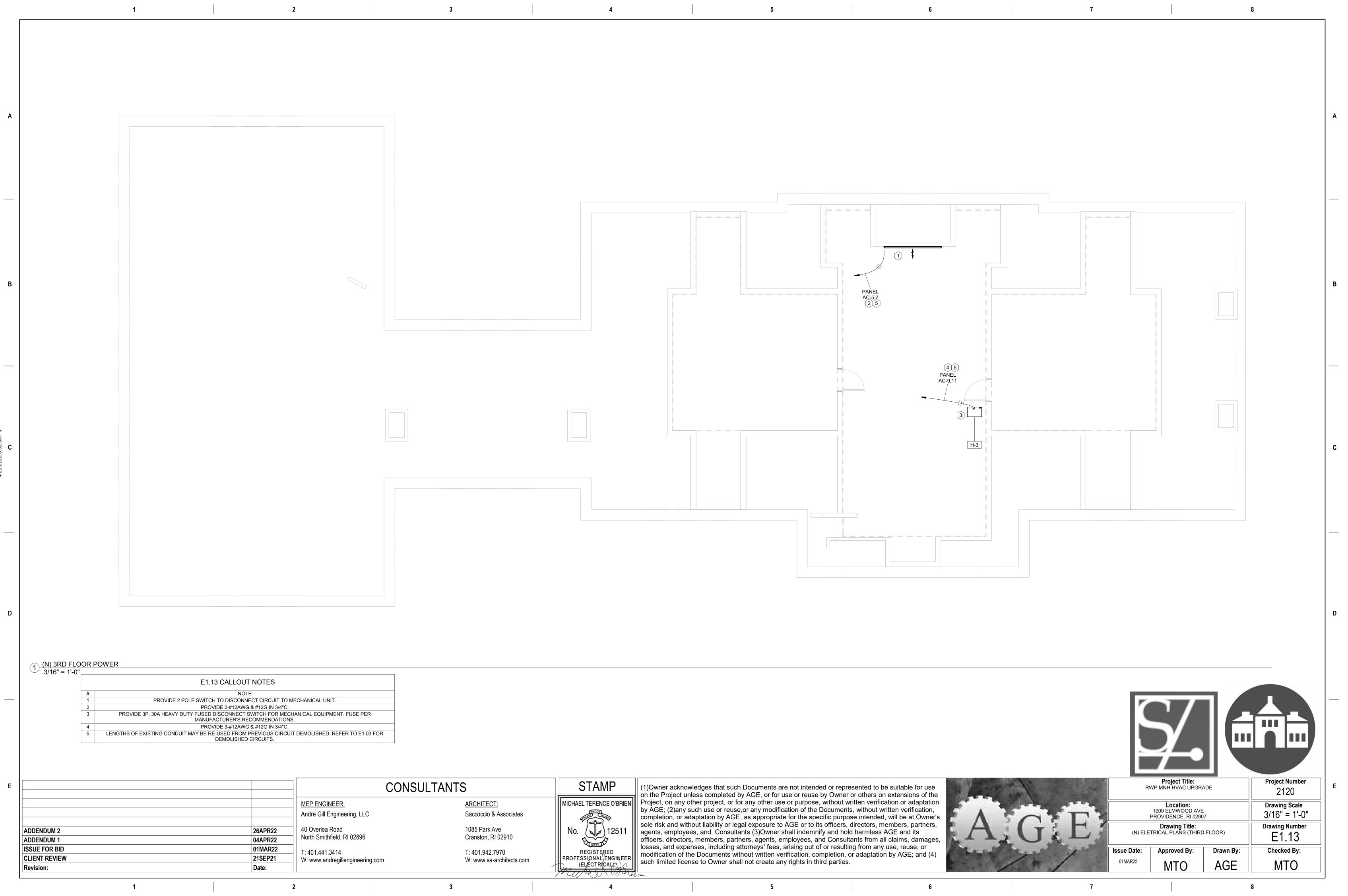
3 4



R	evi	sic	n







		¹ Branch Panel:												
	Notes:		BOILER ROOM-2 009 MDP Surface	-2			Volts: Phases: Wires:	3	Wye				Mains T	ting: 10KAIC ype: MLO ting: 225 A ting: 1 A
	CKT BR-1	Circuit Descriptio	on Trij 20 /		, 192 VA	A 0 VA	В		(2	Poles 3	Trip 30 A	Spare	Circuit Desc
	BR-3 BR-5		30 /	A 2 			2000	0 VA	2000	0 VA			Spare 	
2	BR-9	Heating 	20 /		1250	2500	1250	2500	4050	0500	3 	30 A 	UH-1 	
2	BR-13		20 /		1250	1250	1000	1250	1250	2500	 2	 20 A	 Heating	
2	BR-17	Heating MAHU-1	20 / 20 /		500 VA	1250	1000	1250	1000	1250	 2 	 20 A 	 Heating	
2	BR-21 BR-23					1230	500 VA	1250	2250	1250	2	20 A	Heating	
2	BR-25 BR-27				2250	1250	500 VA	1250			2	20 A 	Heating	
2	BR-29	-	20 /		1250	1250			500 VA	1250	2 	20 A 	Heating 	
2	BR-33	-		 \ 1			1250	0 VA	180 VA	0 VA	1	20 A 20 A	RESTROOM Spare	M EXHAUST FA
3	BR-37 BR-39	-	20 / 20 /		0 VA	0 VA	1000	0 VA			1 1	20 A 20 A	Spare Spare	
3	BR-41		20 /		1373	39 VA	13335		0 VA 1282	0 VA 3 VA	1		Spare	
	Legend	1:		otal Amps		5 A	112		107		-			
	Load C	lassification	c	onnected 5831 V			mand Fac 100.00%	tor		ated De 5831 VA				Panel To
	Heating	l		30500 \	/A		100.00%		3	30500 V <i>A</i>	۹			Conn. Load: 39
	Other Recepta			4500 V 180 V 192 V	4		100.00% 100.00% 100.00%			4500 VA 180 VA 192 VA				St. Demand: 39 Total Conn.: 11 St. Demand: 11
				•/										
		Branch Panel: Location: Supply From: Mounting: Enclosure:	: PALEO VAULT 005 : PNL A : Surface				Volts: Phases: Wires:	3	Wye				Mains T	ting: 10KAIC ype: MLO ting: 100 A ting: 1 A
	Notes:	Location: Supply From: Mounting:	: PALEO VAULT 005 : PNL A : Surface				Phases:	3	Wye				Mains T Mains Rat	ype: MLO ting: 100 A
	CKT HLA-1	Location: Supply From: Mounting:	: PALEO VAULT 005 : PNL A : Surface : Type 1	o Poles		A	Phases:	3 4	Wye C		Poles	Trip	Mains T Mains Rat	ype: MLO ting: 100 A
	CKT HLA-1 HLA-3 HLA-5	Location: Supply From: Mounting: Enclosure: Circuit Description	PALEO VAULT 005 PNL A Surface Type 1			A	Phases: Wires:	3 4		2			Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) 	PALEO VAULT 005 PNL A Surface Type 1	A 2 	2000		Phases: Wires:	3 4		<u>}</u>	Poles	Trip 20 A	Mains T Mains Rat	ype: MLO ting: 100 A ting: 1 A
3	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare 	 PALEO VAULT 005 PNL A Surface Type 1 	A 2 A 3 		A	Phases: Wires: B 2000	3 4					Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
3	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-15 HLA-17	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare Receptacle STORAGE 2 14	PALEO VAULT 005 PNL A Surface Type 1	A 2 A 3 	2000	A	Phases: Wires: B	3 4					Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
(<u>3</u>) (<u>3</u>)	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-15 HLA-17 HLA-19 HLA-21	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare Receptacle STORAGE 2 14 Spare	 PALEO VAULT 005 PNL A Surface Type 1 	A 2 A 3 A 1	2000	A	Phases: Wires: B 2000 2000	3 4	0 VA	2			Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
~	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-13 HLA-15 HLA-19 HLA-21	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare Receptacle STORAGE 2 14 Spare Spare 	 PALEO VAULT 005 PNL A Surface Type 1 	A 2 A 3 A 1 A 3	2000	A	Phases: Wires: B 2000 2000 0 VA 0 VA	3 4	0 VA 180 VA		1	20 A	Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
~	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-15 HLA-17 HLA-19 HLA-21 HLA-23 HLA-25 HLA-29 HLA-31	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare Receptacle STORAGE 2 14 Spare Receptacle STORAGE 2 14	 PALEO VAULT 005 PNL A Surface Type 1 on Trip 20 / 30 / 20 / 20 / 20 / 20 / 20 / <td>A 2 A 3 A 1 A 3 A 1 </td><td>2000 2000 0 VA</td><td>A 0 VA</td><td>Phases: Wires: B 2000 2000 0 VA 0 VA</td><td>3 4 1250</td><td>0 VA 180 VA</td><td></td><td>1 2 2</td><td>20 A 20 A 20 A 20 A</td><td>Mains T Mains Rat MCB Rat</td><td>ype: MLO ting: 100 A ting: 1 A</td>	A 2 A 3 A 1 A 3 A 1 	2000 2000 0 VA	A 0 VA	Phases: Wires: B 2000 2000 0 VA 0 VA	3 4 1250	0 VA 180 VA		1 2 2	20 A 20 A 20 A 20 A	Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
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~	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-13 HLA-17 HLA-19 HLA-21 HLA-23 HLA-25 HLA-27 HLA-29 HLA-31 HLA-35 HLA-37	Location: Supply From: Mounting: Enclosure: Circuit Description H-1 (HUMIDIFIER) Spare Spare Receptacle STORAGE 2 14 Spare Spare	 PALEO VAULT 005 PNL A Surface Type 1 on Trip 20 / 30 / 20 / 30 / <	A 2 A 3 A 1 A 3 A 1 A 1 -	2000 2000 0 VA 0 VA 0 VA	A 0 VA 1250 1250 2 VA	Phases: Wires: Wires: 8 2000 2000 2000 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	3 4 1250 1250 1250	0 VA 180 VA 0 VA	1250	1 2 2	20 A 20 A 20 A 20 A	Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
~	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-13 HLA-13 HLA-17 HLA-19 HLA-21 HLA-21 HLA-23 HLA-25 HLA-27 HLA-29 HLA-31 HLA-31 HLA-37 HLA-39	Location: Supply From: Mounting: Enclosure: Circuit Description Spare Spare Receptacle STORAGE 2 14 Spare Spare 	 PALEO VAULT 005 PNL A Surface Type 1 on Trip 20 / 30 / 20 / 30 / <	A 2 A 3 A 1 A 1 A 1 	2000 2000 0 VA 0 VA 0 VA	A 0 VA 1250	Phases: Wires: Wires: 2000 2000 2000 0 VA 0 VA 0 VA 0 VA	3 4 1250 1250 1250	0 VA 180 VA 0 VA	1250	1 2 2	20 A 20 A 20 A 20 A	Mains T Mains Rat MCB Rat	ype: MLO ting: 100 A ting: 1 A
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~	CKT HLA-1 HLA-3 HLA-5 HLA-7 HLA-9 HLA-11 HLA-9 HLA-13 HLA-14 HLA-15 HLA-16 HLA-17 HLA-18 HLA-19 HLA-23 HLA-26 HLA-27 HLA-28 HLA-29 HLA-31 HLA-41 Legend Load C HVAC Heating Recepta	Location: Supply From: Mounting: Enclosure: Circuit Description Spare Receptacle STORAGE 2 14 Spare Spare Receptacle STORAGE 2 14 Spare :- Receptacle STORAGE 2 14	 PALEO VAULT 005 PNL A Surface Type 1 on Trip 20 / 20 / 30 / 20 / 30 / 	A 2 A 3 A 1 A 1 A 1 A 1 -	 2000 2000 0 VA 0 VA 0 VA 0 VA 309 28 309 28 309 28 4 4 5 21 5 21 5 21 309 	A 0 VA 1250 1250 2 VA 3 A Der 	Phases: Wires: Wires: B 2000 2000 2000 2000 0 VA 2000 0 VA 0 VA	3 4 4 1250	0 VA 180 VA 0 VA 180 VA 1398 1398 12 Estim	1250 1250 3 VA 3 VA 3 VA 2 A 180 VA 180 VA 180 VA 180 VA	1 1 2 2 2 1	20 A 20 A 20 A 20 A 20 A 20 A	Mains Ty Mains Rat MCB Rat	VPE: MLO ting: 100 A ting: 1 A Circuit Desc Circuit Desc Circuit Desc Saccoc

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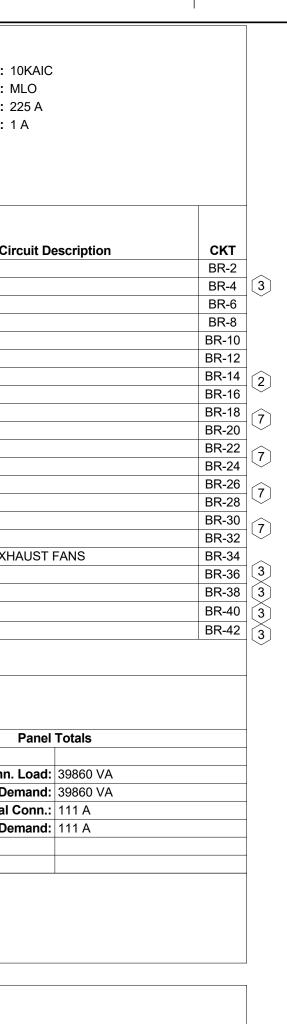
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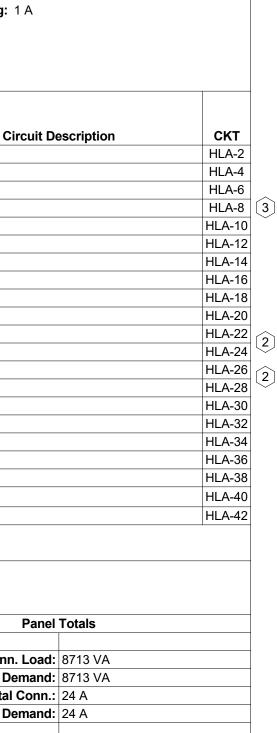
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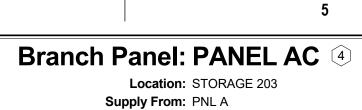




ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

T: 401.942.7970 W: www.sa-architects.com



Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye Phases: 3 Wires: 4

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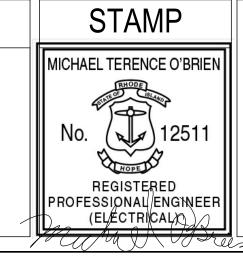
СКТ	Circuit Description	Trip	Poles		4	E	3		C	Poles
1	Heating 3RD FL HALLWAY 60	20 A	2	1250	0 VA					3
3						1250	0 VA			
5	Heating ARCHIVES	20 A	2					1250	0 VA	
7				1250	0 VA					3
9	H-3 (HUMIDIFIER)	30 A	2			2000	0 VA			
11								2000	0 VA	
13	Heating	20 A	2	1250	0 VA					3
15						1250	0 VA			
17	Space		1						0 VA	
19	Spare	20 A	3	0 VA	0 VA					3
21						0 VA	0 VA			
23								0 VA	0 VA	
25	Spare	20 A	3	0 VA	0 VA					3
27						0 VA	0 VA			
29								0 VA	0 VA	
31	Spare	20 A	3	0 VA						
33						0 VA				
35								0 VA		
37										
39										
41										
-		Tot	al Load:	375	0 VA	427	2 VA	309	2 VA	
		Tota	I Amps:	32	2 A	36	βA	26	δA	1

Legend:

4

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	4000 VA	100.00%	4000 VA	
Heating	7500 VA	100.00%	7500 VA	Total Conn. Load: 10966 VA
				Total Est. Demand: 10966 VA
				Total Conn.: 30 A
				Total Est. Demand: 30 A
Notes:	1			

	E2.01 CALLOUT NOTES
#	NOTE
1	EXISTING PANEL. PROVIDE MODIFICATIONS TO PANEL LAYOUT AS SHOWN BELOW. AFTER DEMOL SPARES ARE AS INDICATED. NOTIFY ENGINEER OF LOADS NOT SHOWN AND STILL REMAIN AFTER
2	PROVIDE CIRCUIT BREAKER AS INDICATED FOR LOAD INDICATED.
3	CONFIRM NO LOAD AFTER DEMOLITION, LABEL AS SPARE AND LEAVE CIRCUIT BREAKER OPEN. NOT OTHERWISE.
4	EXISTING CIRCUITS TO REMAIN NOT SHOWN ON PANEL.
5	NEW 2 POLE CIRCUIT BREAKERS MAY BE PLACED IN OTHER LOCATIONS MARKED WITH NOTE 3 IN PA WITH PHASING.
6	CONFIRM NO LOAD AFTER DEMOLITION, PLACE FILLER IN SPACE TO PREVENT EXPOSED BU
7	PROVIDE GFCI CIRCUIT BREAKER AS INDICATED FOR LOAD INDICATED.



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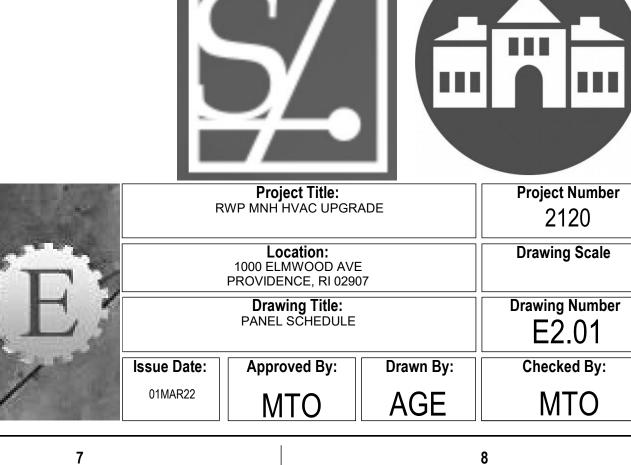
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A.I.C. Rating: 10 Mains Type: MLO Mains Rating: 100 A MCB Rating: 1 A					
Гrip	Circuit Description	скт			
30 A	Spare	2			
		4			
		6			
20 A	Spare	8			
		10			
		12			
0 A	Spare	14			
		16			
		18			
0 A	Spare	20			
		22			
		24			
0 A	Spare	26			
		28			
		30			
		32			
		34			
		36			
		38			
		40			

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ANEL AC TO HELP BUSSING.



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MEP ENGINEER: Andre Gill Engineering, LLC 40 Overlea Road ADDENDUM 2 26APR22 04APR22 ADDENDUM 1 **ISSUE FOR BID** 01MAR22 T: 401.441.3414 **CLIENT REVIEW** 21SEP21 Revision: Date:

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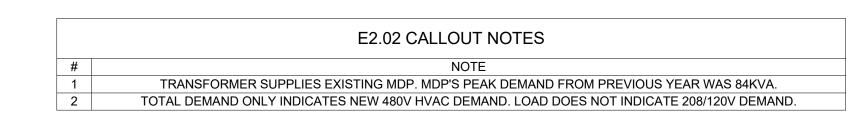
CONSULTANTS

North Smithfield, RI 02896

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W: www.andregillengineering.com

Location: STORAGE L 6 Supply From: Mounting: Surface Enclosure: NEMA 1 Indoor					Volts: Phases: Wires:		 A.I.C. Rating: Use Panel Short Circuit & Ref Mains Type: Mains Rating: 800 A MCB Rating: 800 A 					
Notes:												
	Trip	Poles		A		в		C	Poles	Trip	Circuit Description	
	150 A	3	2992	4863					3	250 A	AHU-1 HEATERS	
MB4-3					2992	4863						
MB4-5							2992	4863				
	60 A	3	1162	2533					3	90 A	AHU-2	
MB4-9					1162	2533	-					
MB4-11							1162	2533				
	80 A	3	1432									
MB4-15					1432		4400					
MB4-17			0.1/4				1432					
MB4-19 150 kVA, 277 V/480 V, Three Phase, 4 Wires, Wye		3	0 VA		0.1/4							
MB4-21 MB4-23					0 VA		0.1/4					
MB4-23							0 VA					
MB4-25 MB4-27												
MB4-27 MB4-29												
MB4-29 MB4-31							-					
MB4-33									-			
MB4-35												
MB4-37												
MB4-39						-			-			
MB4-00												
	Tota	al Load:	9260	94 VA	926	94 VA	9260	94 VA				
		I Amps:		5 A		85 A		5 A				
Legend:												
Load Classification		nected I			mand Fa			nated De			Panel Totals	
HVAC		84026 V			100.00%			84026 V				
Heating	1	45900 V	А		100.00%	0	1	45900 V	A		Total Conn. Load: 278081 VA	
											Total Est. Demand: 278081 VA Total Conn.: 334 A	
											Total Est. Demand: 334 A	
											I ULAI ESI. Demanu: 334 A	2
				1			1					

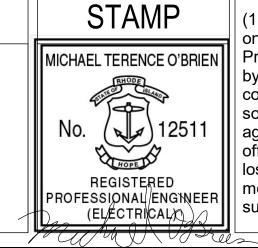


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ARCHITECT: Saccoccio & Associates

1085 Park Ave Cranston, RI 02910

T: 401.942.7970 W: www.sa-architects.com



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